

BN804 P/N

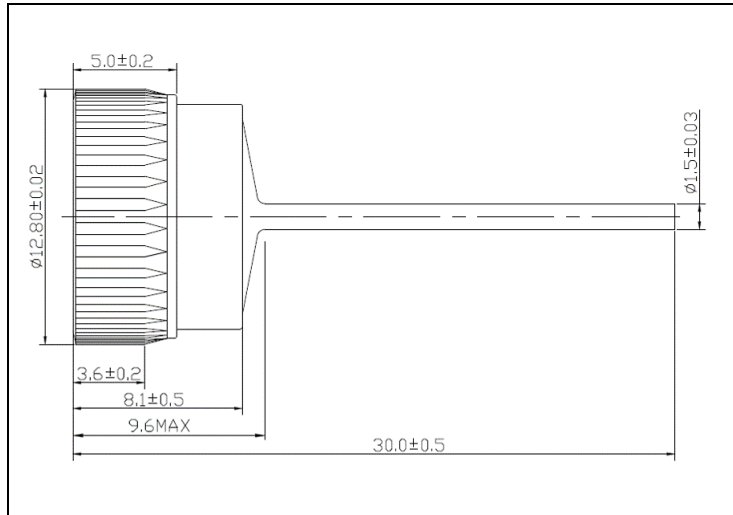
Pressfit Diode for Automotive Application
80A High Voltage Diode

Features

- ▣ High Power Capability
- ▣ High Temperature Application
- ▣ Low Leakage
- ▣ Open Junction Technic

Polarity

BN804P - Cathode Toward to Case
BN804N - Anode Toward to Case



Maximum Ratings (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	80	A
Non-repeative Forward Peak Surge Current (Half Sine Wave,50Hz,1 Cycle)	I_{FSM}	960	A
Maximum Repeative Peak Reverse Voltage	V_{RRM}	300	V
Junction Temperature	T_j	-40~215	°C
Thermal Resistance Junction to Case	$R_{\theta JC}$	0.4	°C/W

Electrical Characteristics (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	VALUE	UNIT
Maximum Forward Voltage	V_{FM}	$I_{FM}=100A, PW=0.3mS$	1.02	V
Maximum Reverse Current	I_{RRM1}	$V_{RRM}=300V$	1	uA
Maximum Reverse Current Under High Temperature	I_{RRM2}	$T_a=150^{\circ}C, V_{RRM}=300V$	300	uA
Minimum Breakdown Voltage	V_{BR}	$I_B=10uA, T=10mS$	350	V



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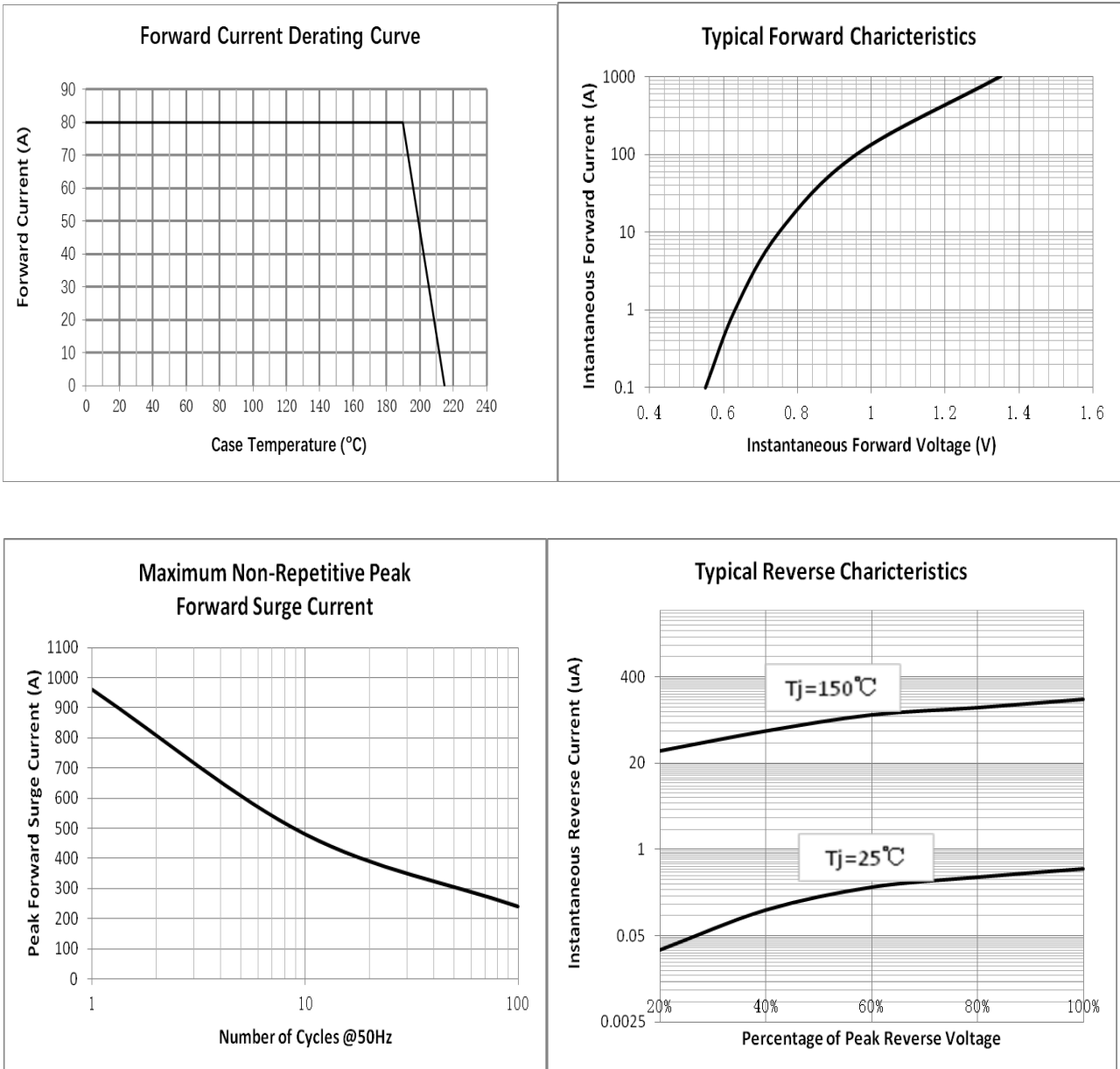
TECHNICAL DATA SHEET

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BN804 P/N

Pressfit Diode for Automotive Application
80A High Voltage Diode

Rating And Characteristic Curves



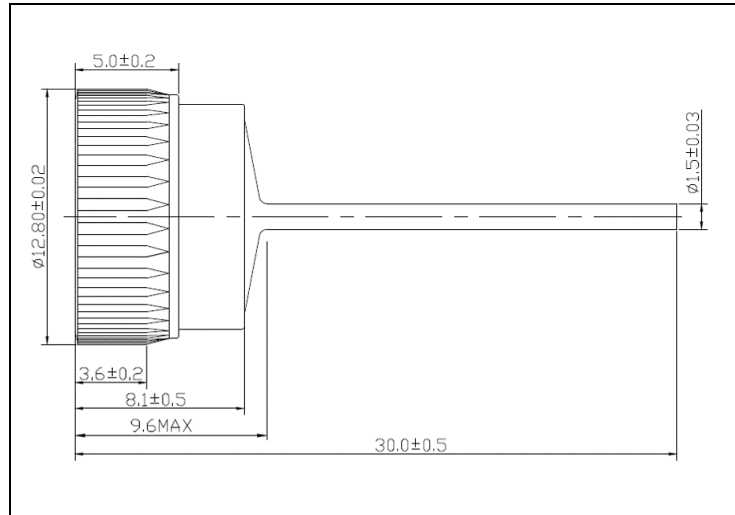
<h3>BN80H P/N</h3>	Pressfit Diode for Automotive Application 80A TVS 34-40V Diode
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Features

- ▣ High Power Capability
- ▣ High Temperature Application
- ▣ Low Leakage
- ▣ Open Junction Technic

Polarity

BN80HP - Cathode Toward to Case
BN80HN - Anode Toward to Case



Maximum Ratings (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	80	A
Non-Repetive Forward Peak Surge Current (Half Sine Wave, 50Hz, 1 Cycle)	I_{FSM}	960	A
Maximum Repeative Peak Reverse Voltage	V_{RRM}	32	V
Junction Temperature	T_j	-40~215	°C
Thermal Resistance Junction to Case	$R_{\theta JC}$	0.4	°C/W

Electrical Characteristics (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	VALUE	UNIT
Maximum Forward Voltage	V_{FM}	$I_{FM}=100A, PW=0.3mS$	1.02	V
Maximum Reverse Current	I_{RRM1}	$V_{RRM}=32V$	0.3	uA
Maximum Reverse Current Under High Temperature	I_{RRM2}	$T_a=150^{\circ}C, V_{RRM}=32V$	100	uA
Reverse Breakdown Voltage	V_{BR}	$I_B=10mA, T=10mS$	34~40	V



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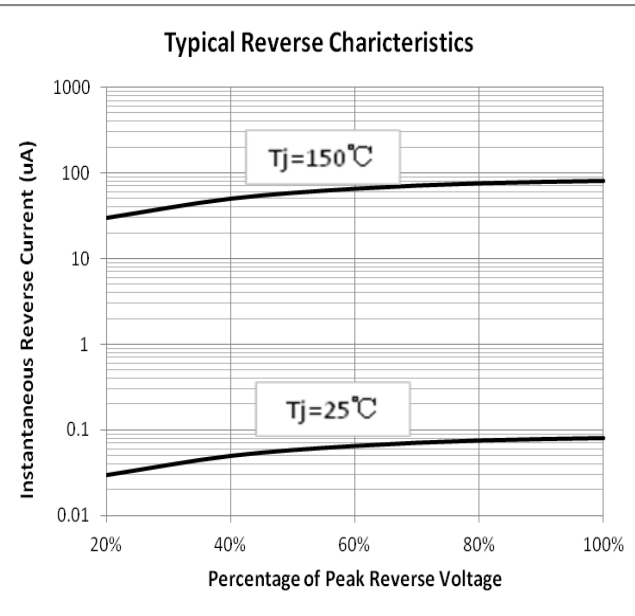
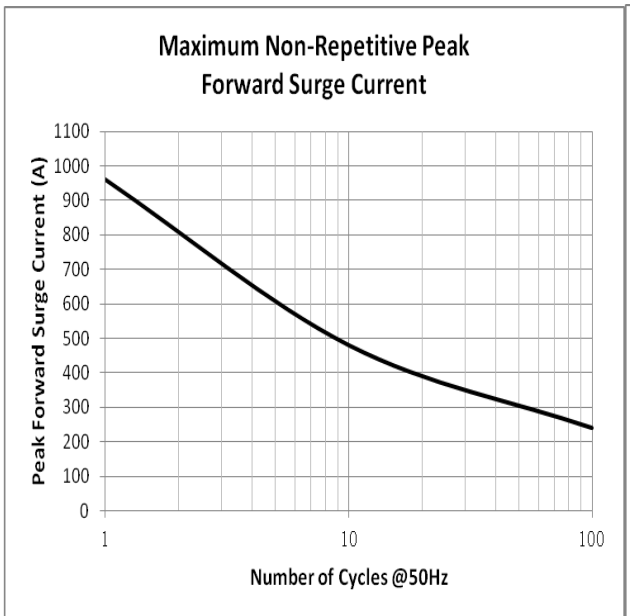
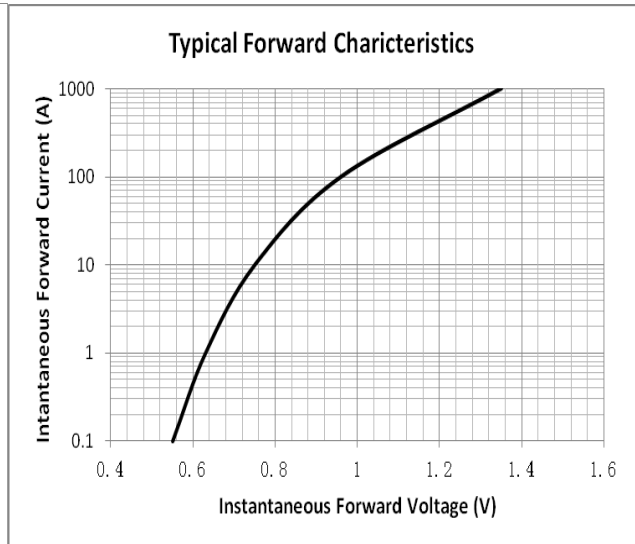
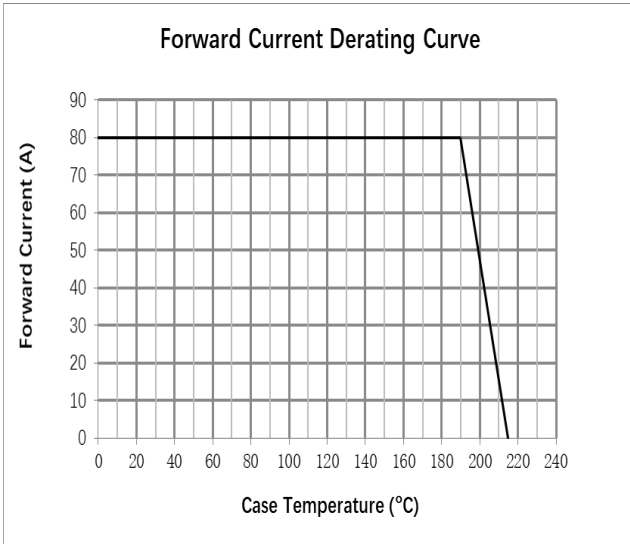
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BN80H P/N

Pressfit Diode for Automotive Application
80A TVS 34-40V Diode

Rating And Characteristic Curves



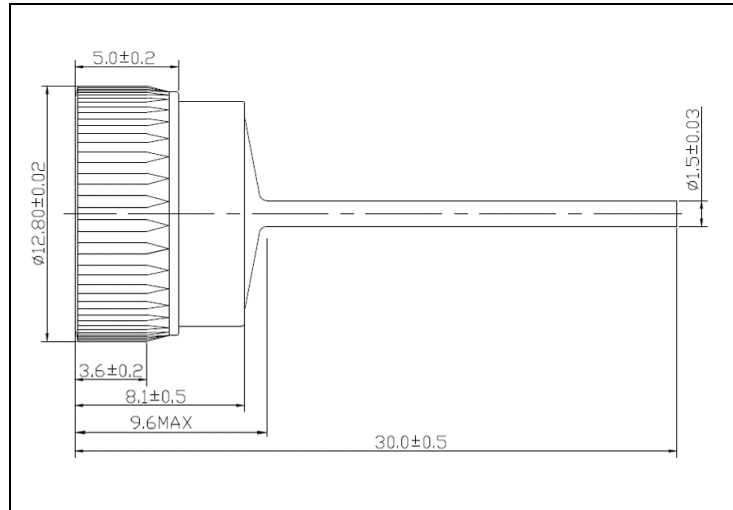
<h3>BN80L P/N</h3>	Pressfit Diode for Automotive Application 80A TVS 20-24V Diode
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Features

- High Power Capability
- High Temperature Application
- Low Leakage
- Open Junction Technic

Polarity

BN80LP - Cathode Toward to Case
BN80LN - Anode Toward to Case



Maximum Ratings (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	80	A
Non-Repetitive Forward Peak Surge Current (Half Sine Wave, 50Hz, 1 Cycle)	I_{FSM}	960	A
Maximum Repeative Peak Reverse Voltage	V_{RRM}	16	V
Junction Temperature	T_j	-40~215	°C
Thermal Resistance Junction to Case	$R_{\theta JC}$	0.4	°C/W

Electrical Characteristics (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	VALUE	UNIT
Maximum Forward Voltage	V_{FM}	$I_{FM}=100A, PW=0.3mS$	1.02	V
Maximum Reverse Current	I_{RRM1}	$V_{RRM}=16V$	0.3	uA
Maximum Reverse Current Under High Temperature	I_{RRM2}	$T_a=150^{\circ}C, V_{RRM}=16V$	100	uA
Reverse Breakdown Voltage	V_{BR}	$I_B=10mA, T=10mS$	20~24	V



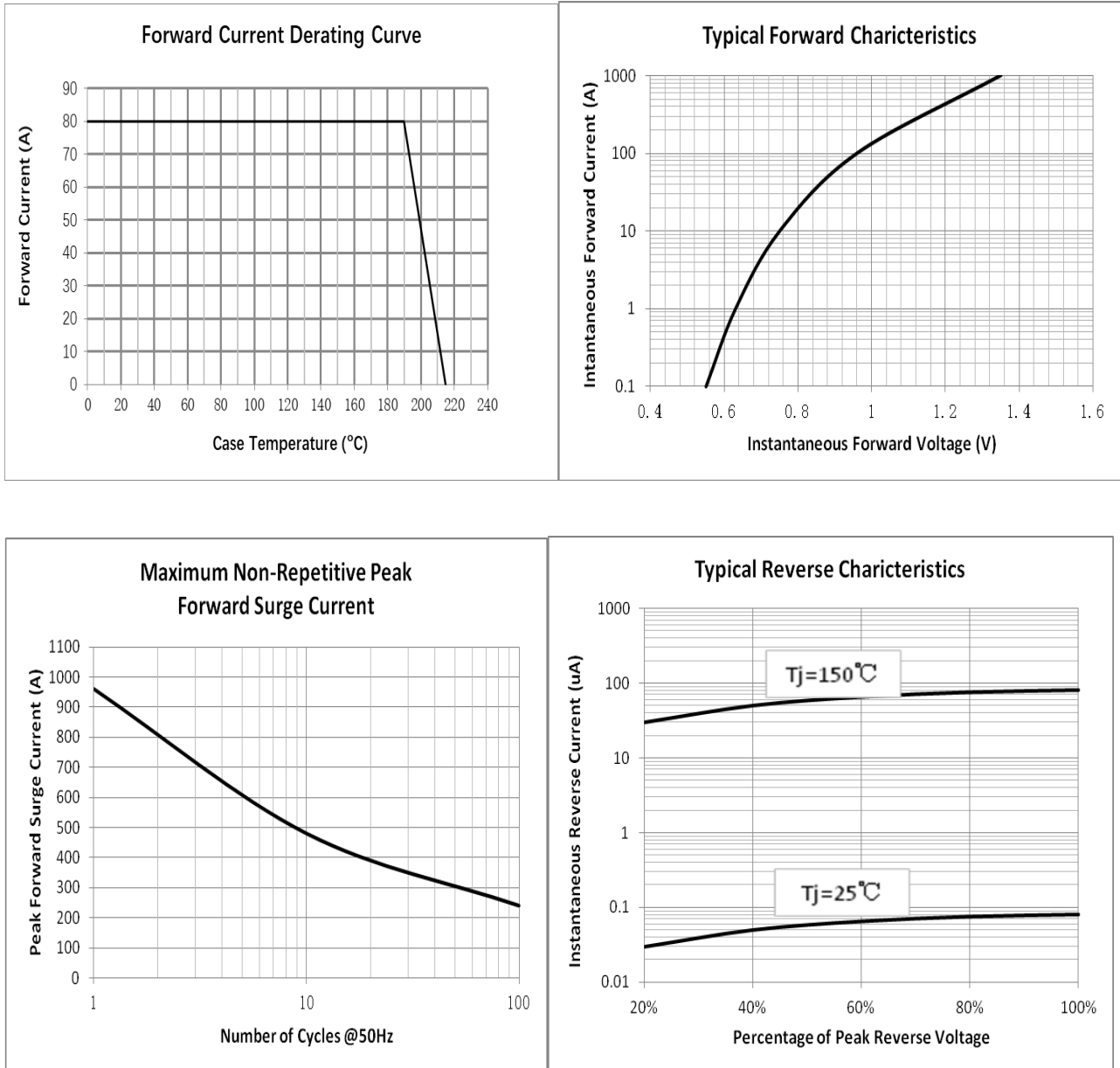
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BN80L P/N	Pressfit Diode for Automotive Application 80A TVS 20-24V Diode
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Rating And Characteristic Curves



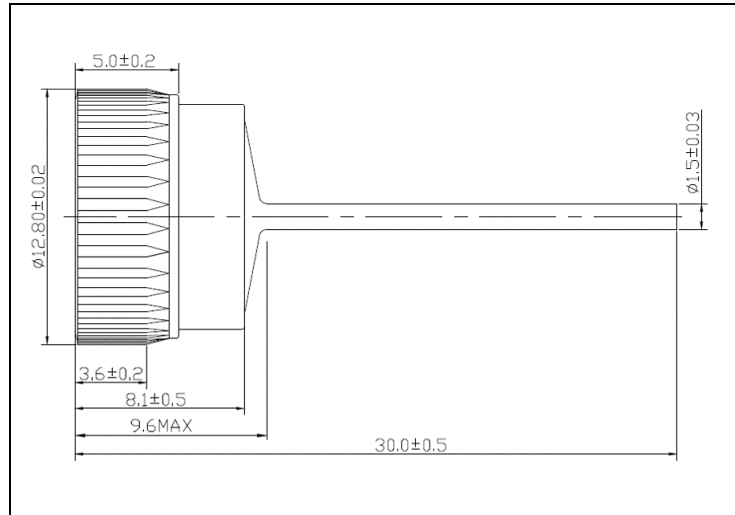
<h3>BN80M P/N</h3>	Pressfit Diode for Automotive Application 80A TVS 24-29V Diode
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Features

- High Power Capability
- High Temperature Application
- Low Leakage
- Open Junction Technic

Polarity

BN80MP - Cathode Toward to Case
BN80MN - Anode Toward to Case



Maximum Ratings (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	80	A
Non-Repetitive Forward Peak Surge Current (Half Sine Wave, 50Hz, 1 Cycle)	I_{FSM}	960	A
Maximum Repetive Peak Reverse Voltage	V_{RRM}	20	V
Junction Temperature	T_j	-40~215	°C
Thermal Resistance Junction to Case	$R_{\theta JC}$	0.4	°C/W

Electrical Characteristics (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	VALUE	UNIT
Maximum Forward Voltage	V_{FM}	$I_{FM}=100A, PW=0.3mS$	1.02	V
Maximum Reverse Current	I_{RRM1}	$V_{RRM}=20V$	0.3	uA
Maximum Reverse Current Under High Temperature	I_{RRM2}	$T_a=150^{\circ}C, V_{RRM}=20V$	100	uA
Reverse Breakdown Voltage	V_{BR}	$I_B=100mA, T=10mS$	24~29	V



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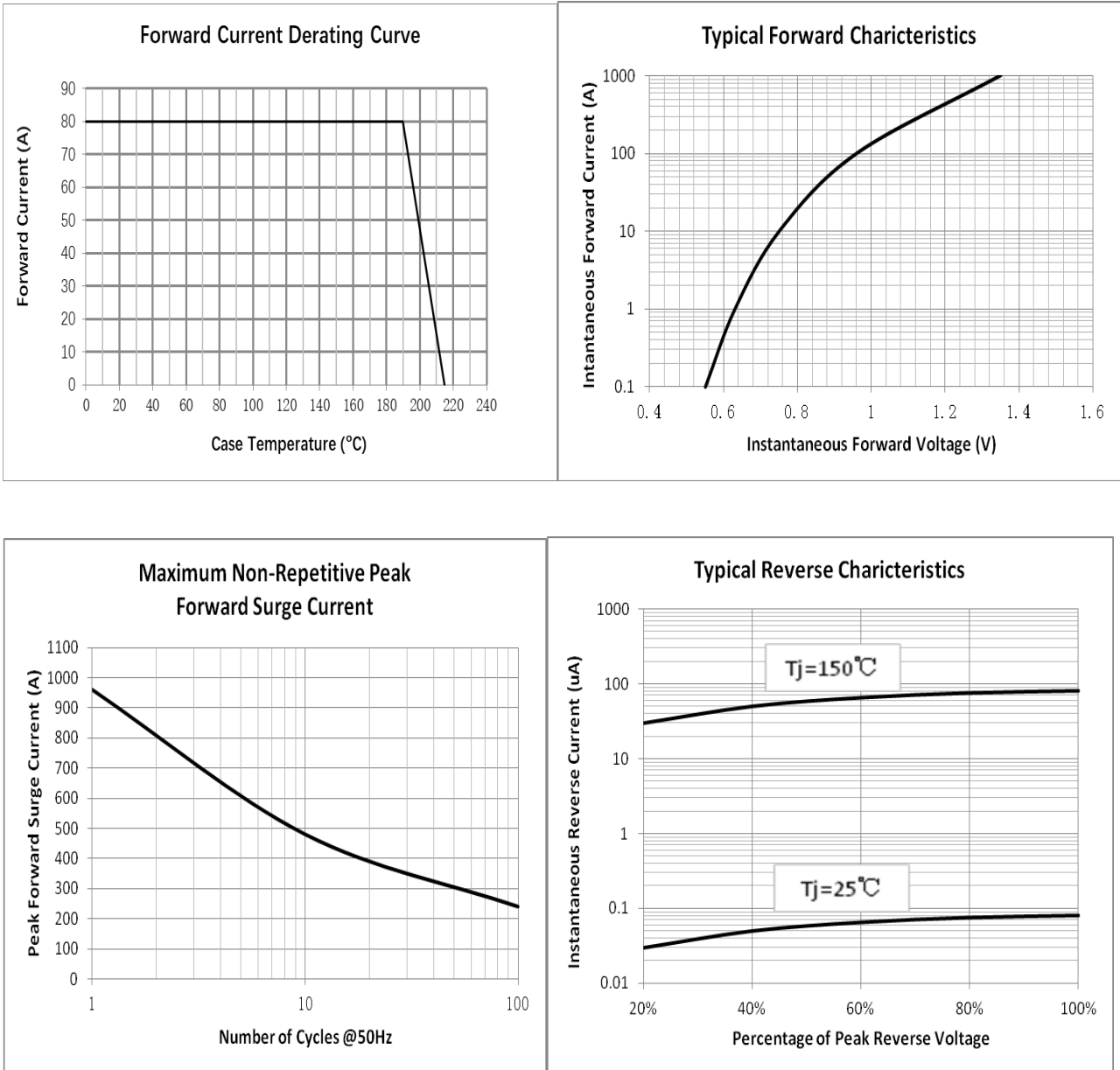
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BN80M P/N

Pressfit Diode for Automotive Application
80A TVS 24-29V Diode

Rating And Characteristic Curves



BN80U P/N

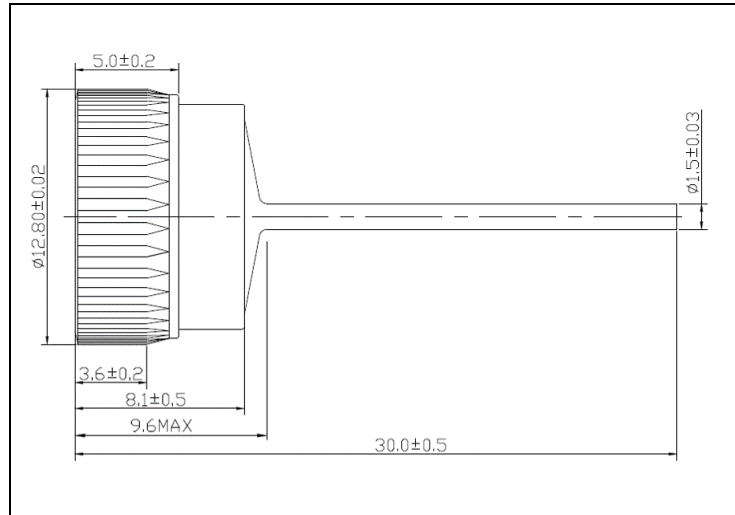
Pressfit Diode for Automotive Application
80A TVS 38-43V Diode

Features

- ▣ High Power Capability
- ▣ High Temperature Application
- ▣ Low Leakage
- ▣ Open Junction Technic

Polarity

BN80UP - Cathode Toward to Case
BN80UN - Anode Toward to Case



Maximum Ratings (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Average Forward Current	$I_{F(AV)}$	80	A
Non-Repetitive Forward Peak Surge Current (Half Sine Wave, 50Hz, 1 Cycle)	I_{FSM}	960	A
Maximum Repetive Peak Reverse Voltage	V_{RRM}	32	V
Junction Temperature	T_j	-40~215	°C
Thermal Resistance Junction to Case	$R_{\theta JC}$	0.4	°C/W

Electrical Characteristics (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	VALUE	UNIT
Maximum Forward Voltage	V_{FM}	$I_{FM}=100A, PW=0.3mS$	1.02	V
Maximum Reverse Current	I_{RRM1}	$V_{RRM}=32V$	0.3	uA
Maximum Reverse Current Under High Temperature	I_{RRM2}	$T_a=150^{\circ}C, V_{RRM}=32V$	100	uA
Reverse Breakdown Voltage	V_{BR}	$I_B=100mA, T=10mS$	38~43	V



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BN80U P/N

Pressfit Diode for Automotive Application
80A TVS 38-43V Diode

Rating And Characteristic Curves

