

SCHOTTKY BARRIER RECTIFIERS

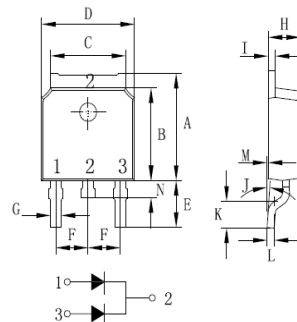
VOLTAGE	40 to 200 Volts
CURRENT	10 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For through hole applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS

MECHANICAL DATA

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking

TO-252 (DPAK)


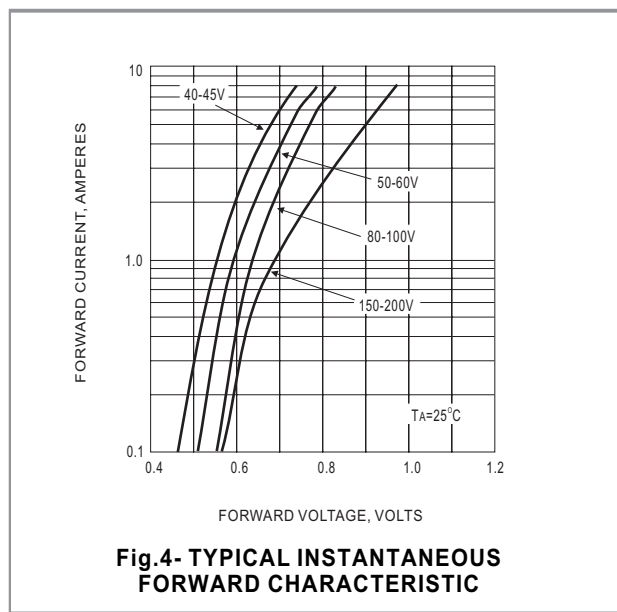
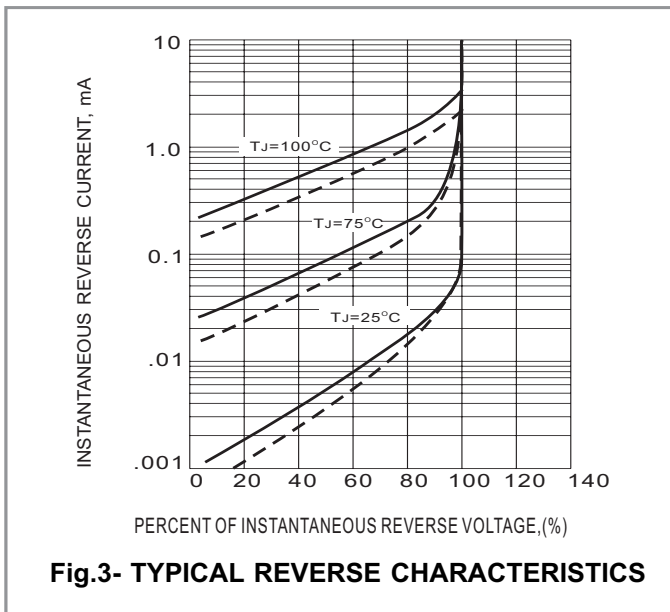
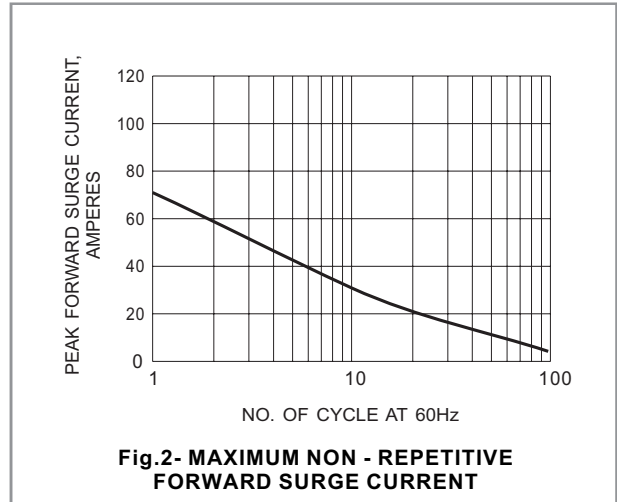
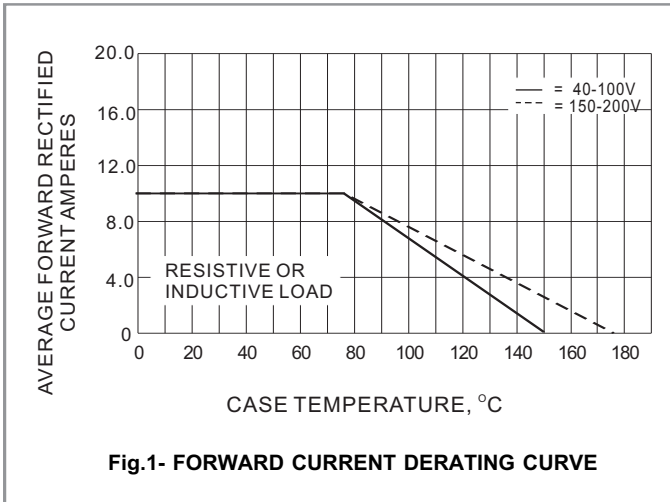
TO-252 (DPAK)		
Unit:mm		
DIM	MIN	MAX
A	6.85	7.25
B	5.90	6.30
C	5.13	5.53
D	6.40	6.80
E	2.90	3.30
F	2.19	2.39
G	0.45	0.85
H	2.20	2.40
I	0.41	0.61
J	0°	8°
K	1.45	1.85
L	0.41	0.61
M	0.00	0.12
N	0.60	1.00

MAXIMUM RATINGS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	MBR 840CD	MBR 845CD	MBR 850CD	MBR 860CD	MBR 880CD	MBR 890CD	MBR 8100CD	MBR 8150CD	MBR 8200CD	UNITS	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	90	100	150	200	V	
Maximum RMS Voltage	V_{RMS}	28	31.5	35	42	56	63	70	105	140	V	
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	90	100	150	200	V	
Maximum Average Forward (See Figure 1)	$I_{F(AV)}$	8									A	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	100									A	
Maximum Forward Voltage at 4.0A per leg	V_F	0.70	0.80		0.85			0.92			V	
Maximum DC Reverse Current at $T_j=25^{\circ}C$ Rated DC Blocking Voltage $T_j=100^{\circ}C$	I_R	0.05					20					mA
Typical Thermal Resistance	$R_{\theta JC}$	3.0									$^{\circ}C / W$	
Operating Junction and Storage Temperature Range	T_j, T_{STG}	-55 to +150							-55 to +175		$^{\circ}C$	

RATING AND CHARACTERISTIC CURVES



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