



YEA SHIN TECHNOLOGY CO., LTD

MBR840CD THRU MBR8200CD

8A SCHOTTKY BARRIER RECTIFIERS



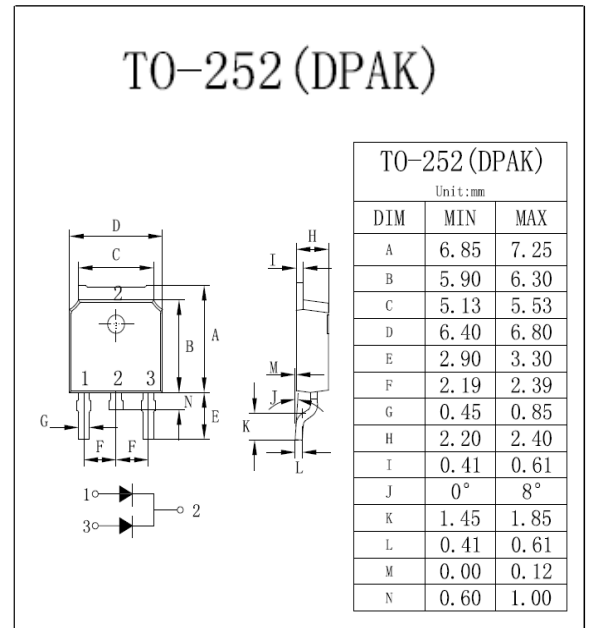
VOLTAGE - 40 to 200 Volts CURRENT - 8.0 Amperes

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



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°C Rated DC Blocking Voltag T _J =100°C	I _R	0.05 20									mA
Typical Thermal Resistance	R _{θJC}	3.0									°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to + 150							-55 to +175		°C

DEVICE CHARACTERISTICS

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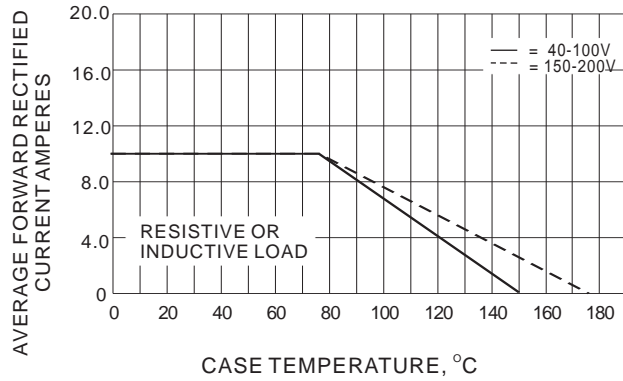


Fig.1- FORWARD CURRENT DERATING CURVE

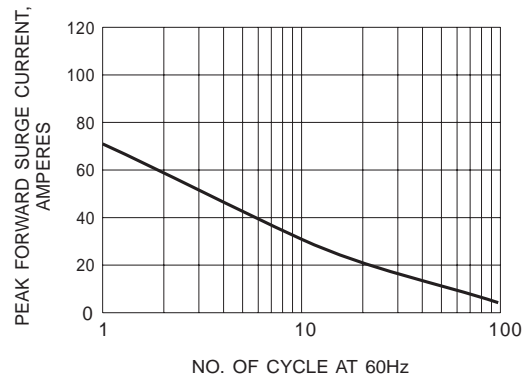


Fig.2- MAXIMUM NON - REPETITIVE FORWARD SURGE CURRENT

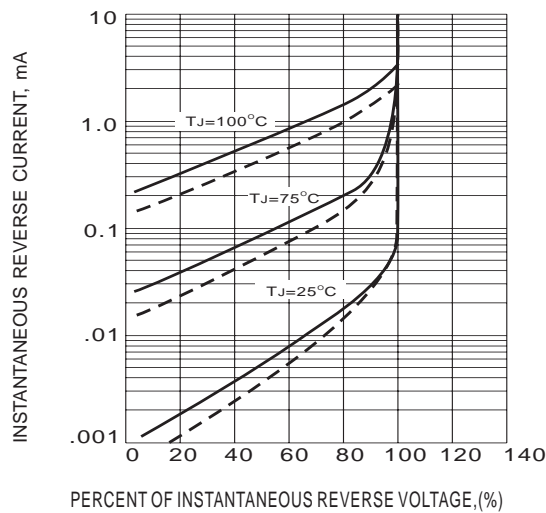


Fig.3- TYPICAL REVERSE CHARACTERISTICS

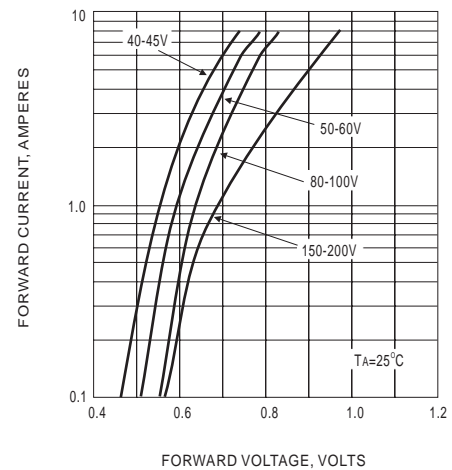


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC