

MBR840D~MBR8200D D²PAK SURFACE MOUNTSCHOTTKY BARRIER RECTIFIER VOLTAGE 40 to 200 Volt CURRENT TO-263 / D²PAK Unit: inch (mm) 8 Ampere **FEATURES** · Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing .189(4.8) .409(10.4) .137(4.4) Flame Retardant Epoxy Molding Compound. .387(9.80) .055(1.4) · Low power loss, high efficiency. 4 .047(1.2) · Low forwrd voltge, high current capability 418(10.6) 378(9.60) 357(9.1) 335(8.5) · High surge capacity. · For use in low voltage, high frequency inverters - .126(3.2) .114(2.9) free wheeling, and polarlity protection applications. .110(2.8) · Lead free in compliance with EU RoHS 2.0 .236(6.0) .026(0.7) .197(5.0) · Green molding compound as per IEC 61249 standard .011(0.3) .055(1.4) .035(0.9)MAX .039(1.0 **MECHANICALDATA** .108(2.75) Case: TO-263/D²PAK molded plastic package .108(2.75) .092(2.35) .092(2.35) • Terminals: Lead solderable per MIL-STD-750, Method 2026 · Polarity: As marked. ③ →⊢ ⊘ · Weight: 0.049 ounces, 1.38 grams. MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load. MBR845D MBR850D MBR860D MBR880D MBR890D MBR8100D MBR8150D MBR8200D SYMBOL MBR840D UNITS PARAMETER $\mathsf{V}_{_{\mathrm{RRM}}}$ Maximum Recurrent Peak Reverse Voltage 40 45 50 60 80 90 100 150 200 V $V_{\rm RMS}$ Maximum RMS Voltage 28 31.5 35 42 56 63 70 105 140 V V_{DC} 45 80 100 V Maximum DC Blocking Voltage 40 50 60 90 150 200 Maximum Average Forward (See Figure 1) F(AV) 8 А Peak Forward Surge Current : 8.3ms single half sine-| FSM 150 А

V_F

I_R

 \mathbf{R}_{Uc}

T,T_{stg}

0 7 0

-55 to +150

0 7 5

0 80

0.05

20

3

-65 to +175

0.90

NOTES : Both Bonding and Chip structure are available.

wave superimposed on rated load

Maximum Forward Voltage at 8A

Typical Thermal Resistance

Maximum DC Reverse Current T =25°C

at Rated DC Blocking Voltage T = 100°C

Operating Junction and Storage Temperature Range

V

mΑ

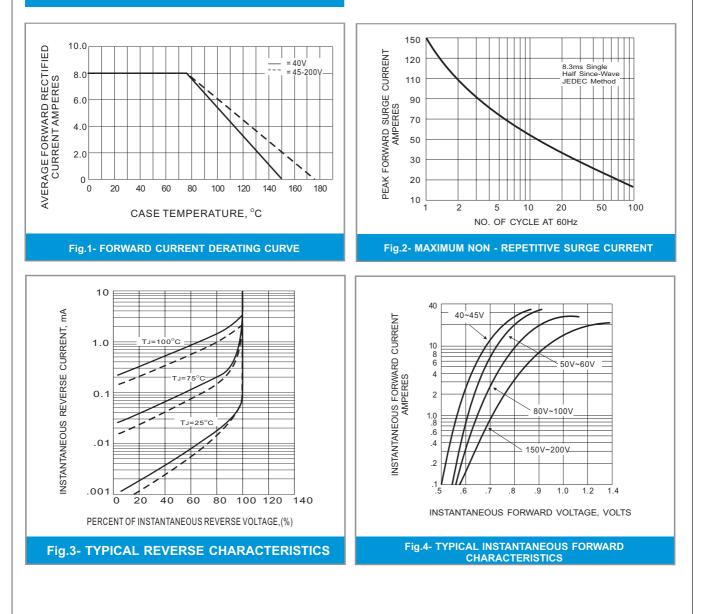
°C/W

٥C



MBR840D~MBR8200D

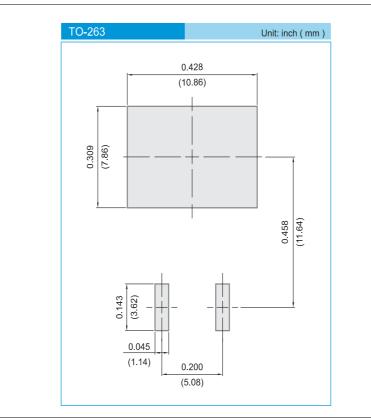
RATING AND CHARACTERISTIC CURVES





MBR840D~MBR8200D

MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
 T/R - 0.8K per 13" plastic Reel



SEMI CONDUCTOR	
MBR840D~MBR8200D	
Part No_packing code_Version MBR840D_R2_00001	

For example :

 RB500V-40_R2_00001

 Part No.

 Vers

 Pac

Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 ^{nd~} 5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

- No.





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