

MBRD560R THRU MBRD5200R

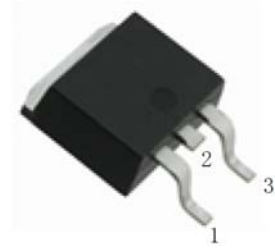
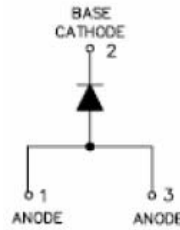
Surface Mount Schottky Barrier Rectifier

Reverse Voltage - 60 to 200 V

Forward Current - 5 A

Features

- Center tap configuration
- Low forward voltage drop
- High frequency operation



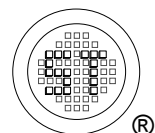
TO-252 Plastic Package
Pin1,3: Anode Pin 2: Cathode

Maximum Ratings and Electrical Characteristics

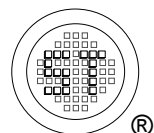
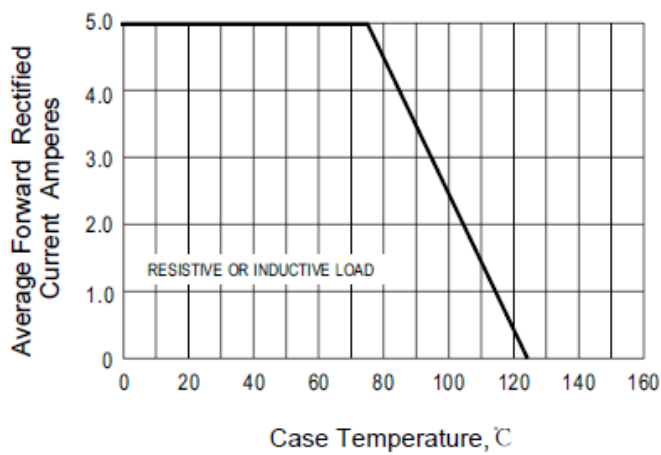
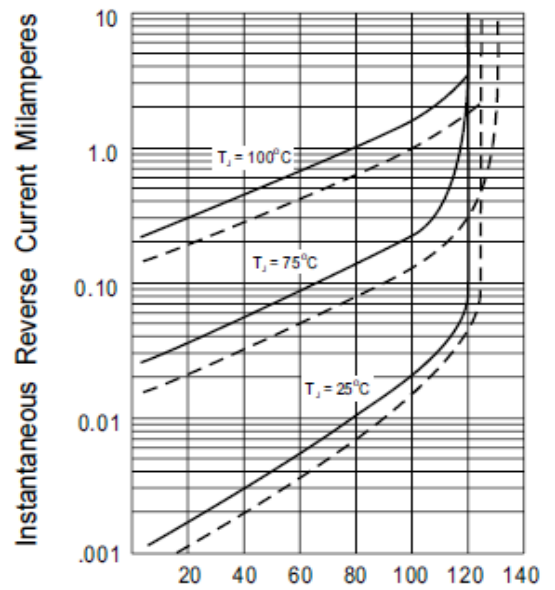
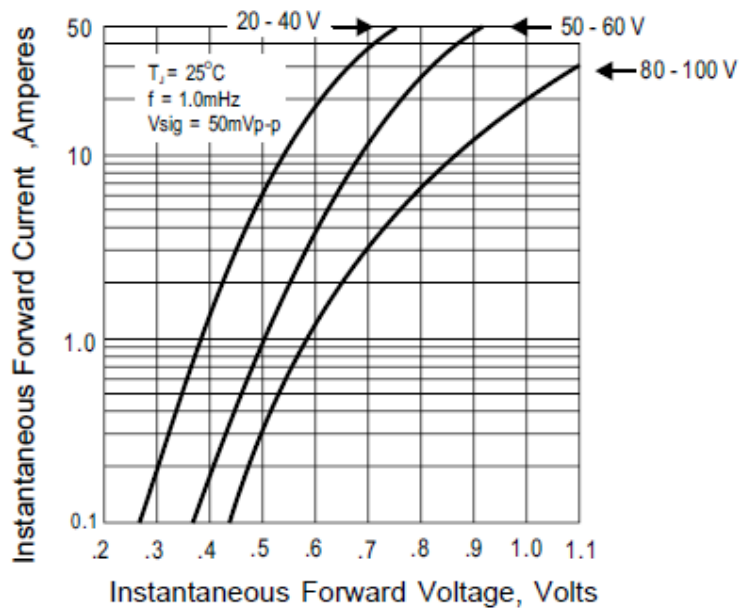
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbols	MBRD560R	MBRD580R	MBRD5100R	MBRD5150R	MBRD5200R	Unit
	Marking	MBRD560R	MBRD580R	MBRD5100R	MBRD5150R	MBRD5200R	-
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	60	80	100	150	200	V
Maximum DC Blocking Voltage	V _{DC}	60	80	100	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	5					A
Peak Forward Surge Current 8.3 ms Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	120					A
Maximum Instantaneous Forward Voltage at 5 A	V _F	0.65	0.75	0.85	0.9	0.92	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	1					mA
Typical Junction Capacitance ¹⁾	C _J	300			150		pF
Typical Thermal Resistance from Junction to Case	R _{θJC}	6					°C/W
Operating Junction Temperature Range	T _j	- 55 to + 150					°C
Storage Temperature Range	T _{stg}	- 55 to + 150					°C

¹⁾ Measured at 1MHz and applied reverse voltage of 5 V D.C.



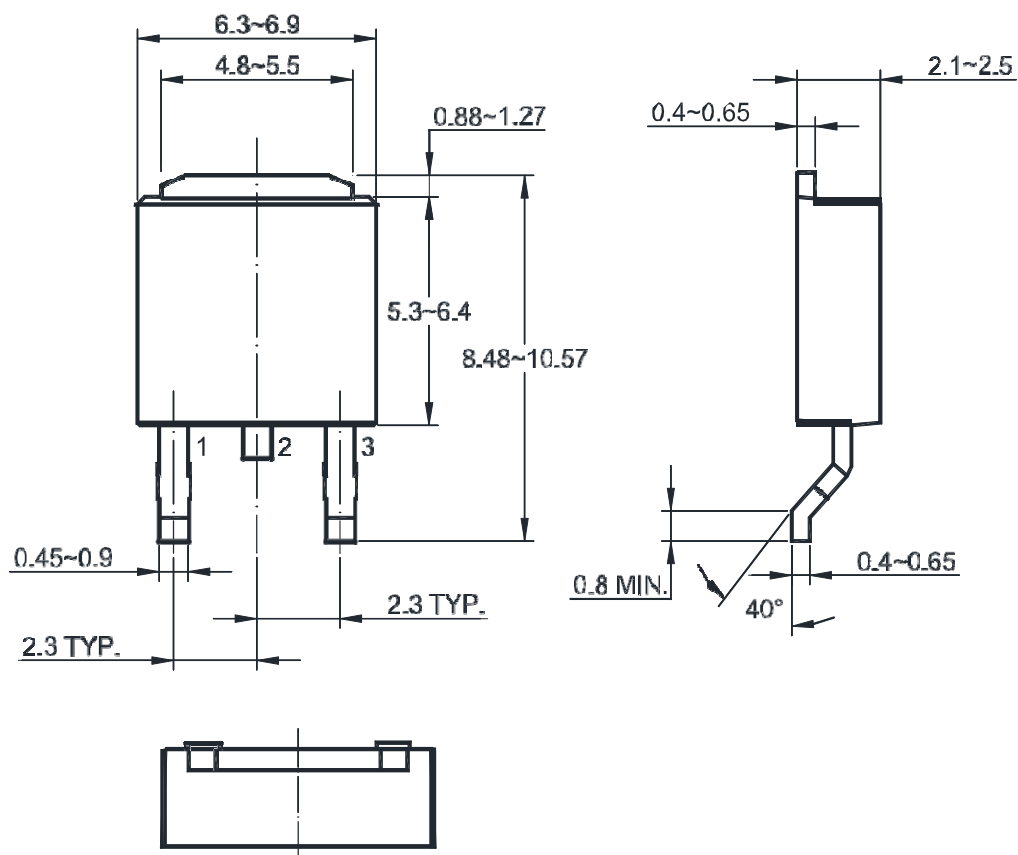
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Package Outline Dimensions (Units: mm)

TO-252



Recommended Soldering Footprint

