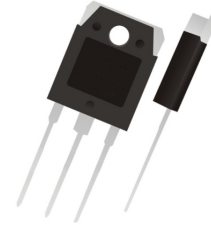


VOLTAGE RANGE: 40 - 200V

CURRENT: 60A

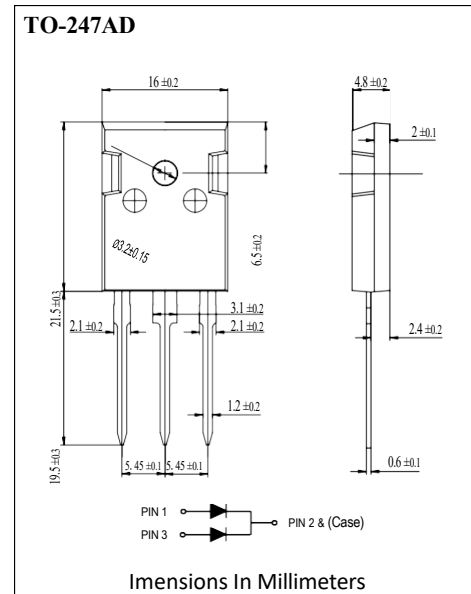


Features

- High efficiency operation and Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

- Circuit figure: Common Cathode
- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight:



Maximum Ratings and Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise specified

RATINGS	SYMBOL	MBR6040PT	MBR6045PT	MBR6060PT	MBR60100PT	MBR60150PT	MBR60200PT	UNIT	
Maximum repetitive reverse voltage	VRRM	40	45	60	100	150	200	V	
Maximum RMS voltage	VRMS	28	32	42	70	105	140	V	
Maximum DC blocking voltage	VDC	40	45	60	100	150	200	V	
Maximum average forward current per device per diode	I _{AV}	60 30							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	580							A
Typical thermal resistance (Note 1)	R _{θ-JC}	1.5							°C/W
Operating junction temperature range	T _J	-55 to +150					-55 to +175		°C
Storage temperature range	T _{STG}	-55 to +175							°C
Maximum forward voltage per leg at I _F =30A	V _F	0.65		0.75	0.85	0.95		V	
Maximum average reverse current at rated DC blocking voltage $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$	I _R	0.10 30			0.02 10		0.01 5		mA

Notes: 1. Thermal resistance from junction to case.

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

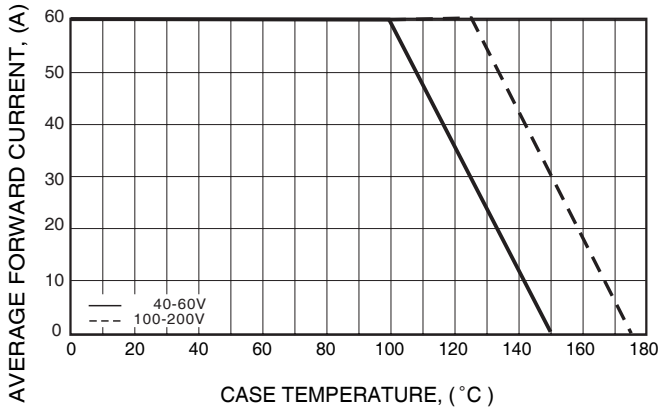


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

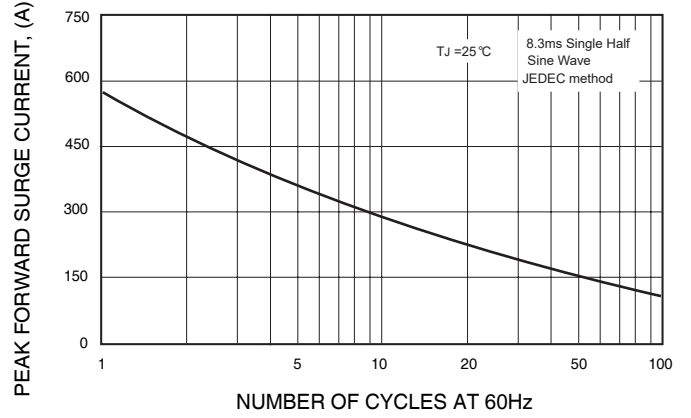


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

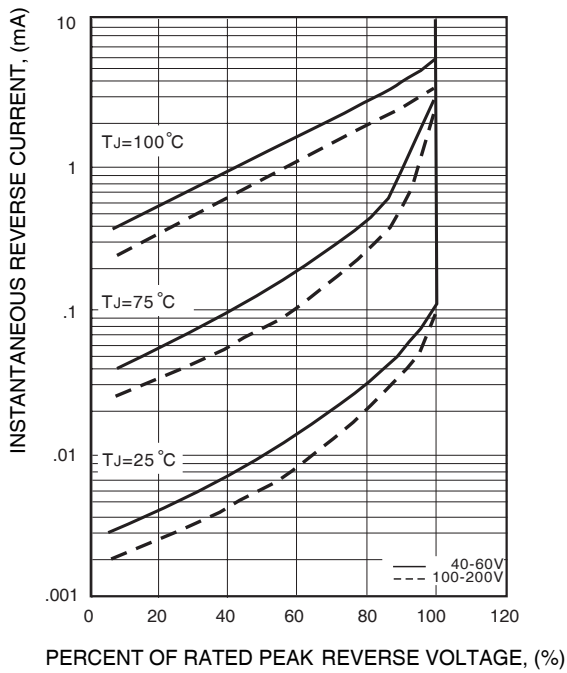


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

