

MBR40L60PT

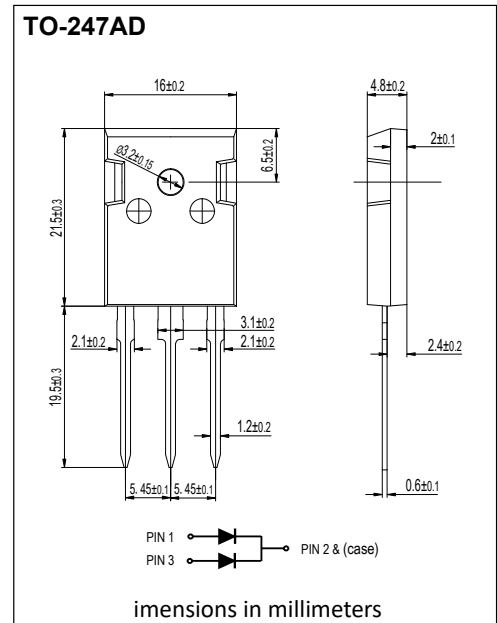
LOW VF Schottky Barrier Rectifiers

Features

- Ultra low vf
- High efficiency operation
- Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

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: 5.85 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C)

RATINGS	SYMBOL	MBR40L60PT		UNIT
Maximum repetitive reverse voltage	VRRM	60		V
Maximum RMS voltage	VRMS	42		V
Maximum DC blocking voltage	VDC	60		V
Maximum average forward current per device per diode	IAV	40 20		A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	400		A
Typical thermal resistance (Note 1)	Rθ-JC	1.5		°C/W
Operating junction temperature range	TJ	-55 to +150		°C
Storage temperature range	TSTG	-55 to +150		°C
CHARACTERISTICS	SYMBOL			UNIT
Maximum forward voltage per leg at IF=20A	VF	0.55 typ.	0.60 max.	V
Maximum average reverse current at rated DC blocking voltage TJ=25°C TJ=100°C	IR	0.150 80		mA

Notes: 1. Thermal resistance from junction to case.

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

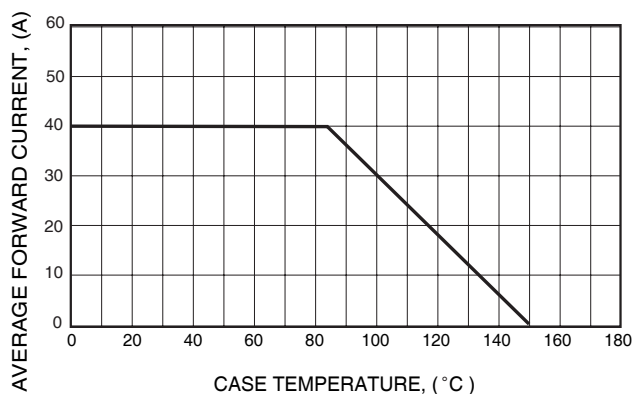


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

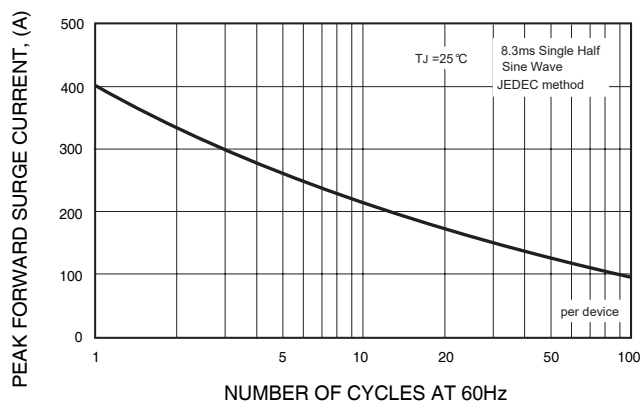


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

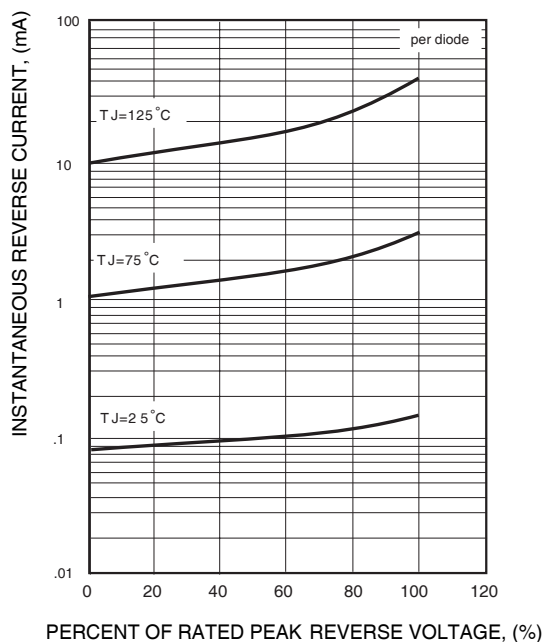


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

