

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 40 - 200V

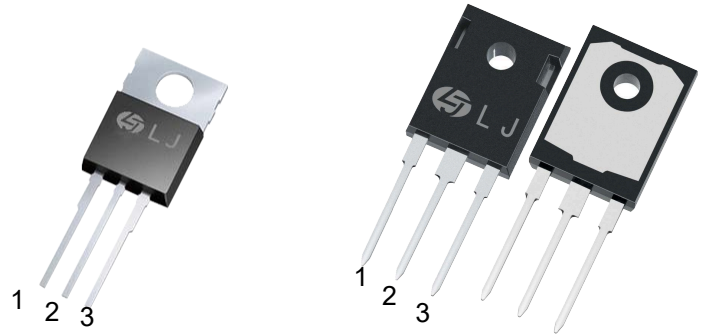
CURRENT: 60A

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)

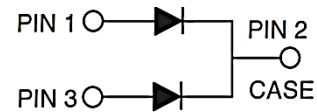
Mechanical Data

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



TO-220AB

TO-247-3



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

RATINGS	SYMBOL	MBR6040CT	MBR6045CT	MBR6060CT	MBR60100CT	MBR60150CT	MBR60200CT	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	IAV	60 30						A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	580						A
Typical thermal resistance (Note 1)	Rθ-JC	1. 5						°C/W
Operating junction temperature range	TJ	-55 to +150				-55 to +175		°C
Storage temperature range	TSTG	-55 to +175						°C
Maximum forward voltage per leg at IF=30A	VF	0.65		0.75	0.85	0.95		V
Maximum average reverse current at rated DC blocking voltage TJ=25°C TJ=100°C	IR	0.10 30			0.02 10		0.01 5	mA

Notes: 1. Thermal resistance from junction to case.

SCHOTTKY BARRIER RECTIFIERS

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

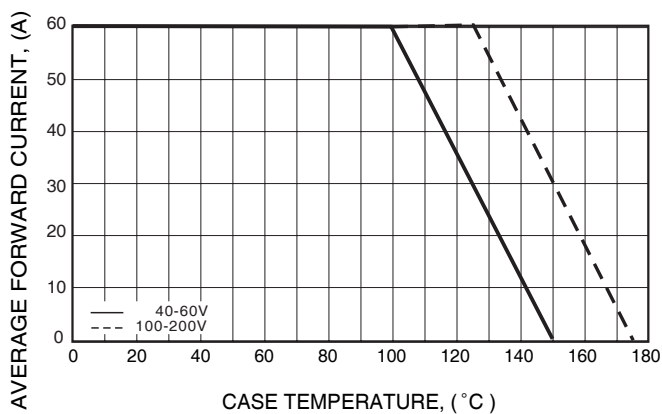


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

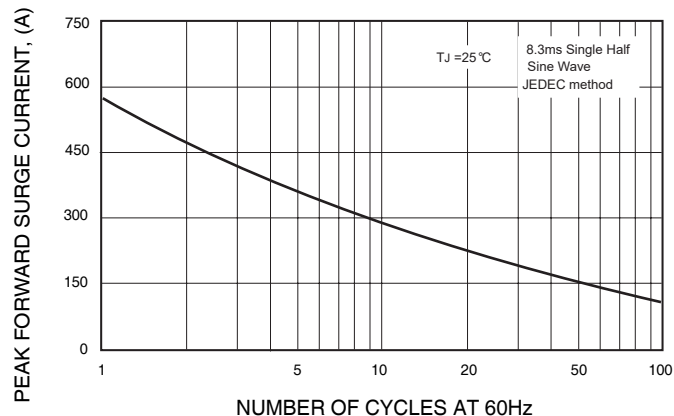


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

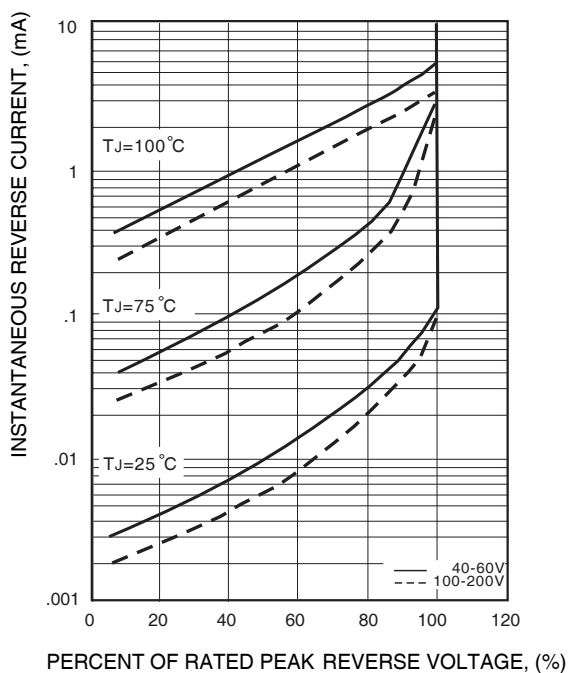


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

