

MBR620 - MBR6100

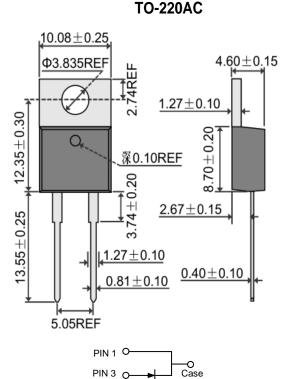
6.0A SCHOTTKY BARRIER RECTIFIER

Features

- Power Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: TO-220A, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 1.9 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 0.6 N.m Max.
- Lead Free: For RoHS / Lead Free Version,



Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

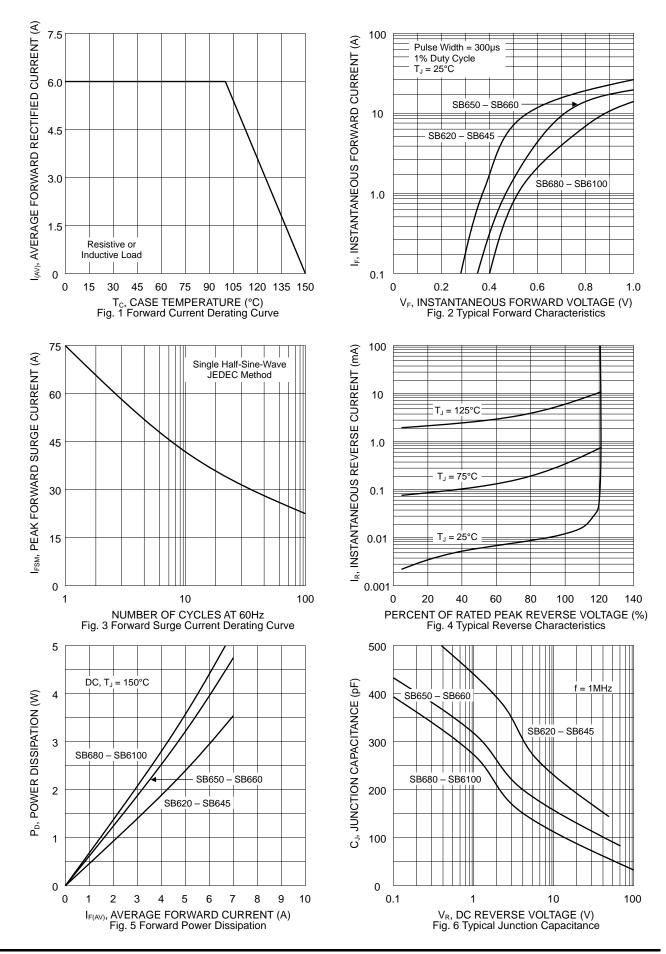
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR 620	MBR 630	MBR 640	MBR 645	MBR 650	MBR 660	MBR 680	MBR 6100	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	lo				6	.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				7	5				A
Forward Voltage $@I_F = 6.0A$	Vfm		0.	55		0.	75	0.	85	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Iгм				-	.2 5				mA
Typical Junction Capacitance (Note 1)	Сл		30	00		2	00	1:	50	pF
Thermal Resistance Junction to Ambient Thermal Resistance Junction to Case	R JA R JC					3 .0		•		°C/W
Operating and Storage Temperature Range	TJ, TSTG				-55 to	+150				°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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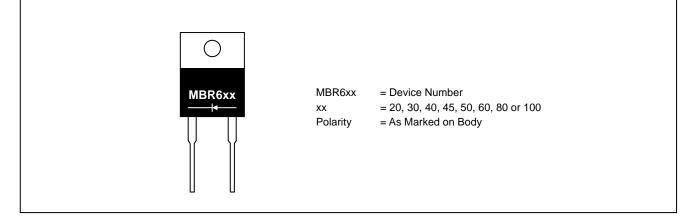


Likun Micro-electroncs Technology Co.,LTD

web:www.lf-diode.com



MARKING INFORMATION



PACKAGING INFORMATION

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weigh
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	558 x 150 x 40	1,000	570 x 235 x 170	5,000	11.85

RECOMMENDED SCREW MOUNTING ARRANGEMENT

