

MBR2520FCT - MBR25100FCT

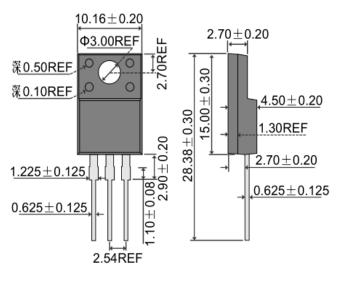
25A DUAL SCHOTTKY BARRIER RECTIFIER

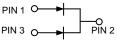
Features

- 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: ITO-220, Full 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%.

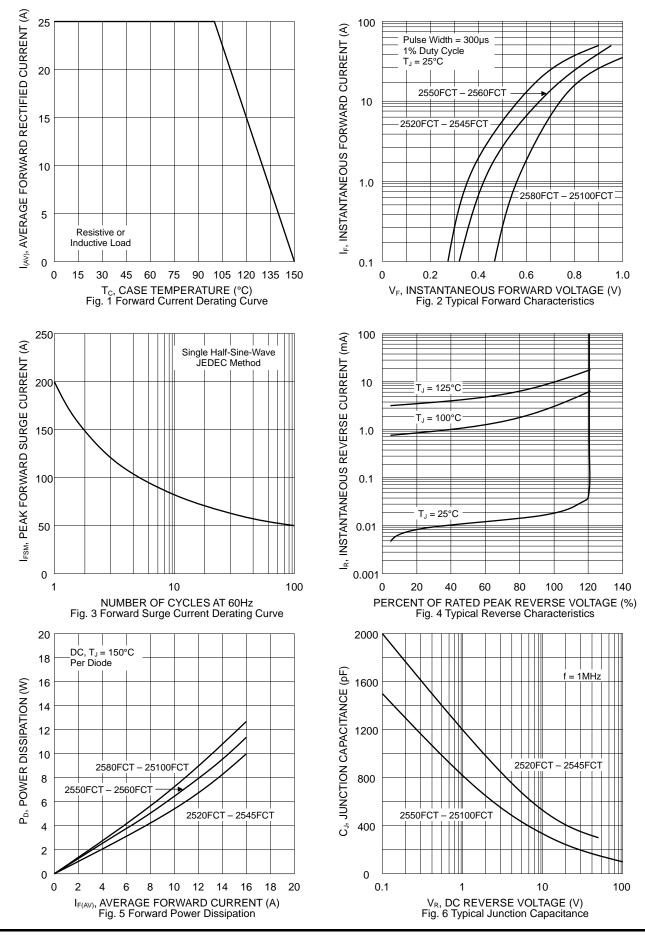
Characteristic	Symbol	MBR 2520FCT	MBR 2530FCT	MBR 2540FCT	MBR 2545FCT	MBR 2550FCT	MBR 2560FCT	MBR 2580FCT	MBR 25100FCT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	45	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	32	35	42	56	70	V
Average Rectified Output CurrentTotal Device $@T_c = 100^{\circ}C$ Per Diode	lo					5 2.5				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM				20	00				A
$ \begin{array}{ll} \mbox{Forward Voltage} & @I_F = 12.5\mbox{A}, \mbox{T}_J = 25\mbox{°C} \\ \mbox{per diode} & @I_F = 12.5\mbox{A}, \mbox{T}_J = 125\mbox{°C} \\ \end{array} $	Vfm		-	62 57		•••	75 65	-	85 75	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Iгм					.0 0				mA
Typical Junction Capacitance (Note 1)	Сл		7	50			50	00		pF
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC				-	7 .0				°C/W
RMS Isolation Voltage, t = 1 min	Viso				15	00				V
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.

ITO-220AB



MBR2520FCT – MBR25100FCT





MARKING INFORMATION



MBR25xxFCT = Device Number xx = 20, 30, 40, 45, 50, 60, 80 or 100 Polarity = As Marked on Body

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

