

MBR2520CT – MBR25100CT

25A DUAL SCHOTTKY BARRIER RECTIFIER

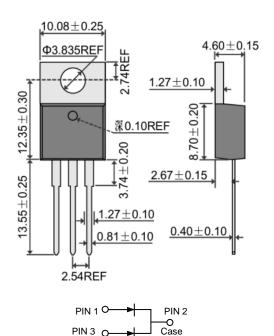
TO-220AB

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-220, 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

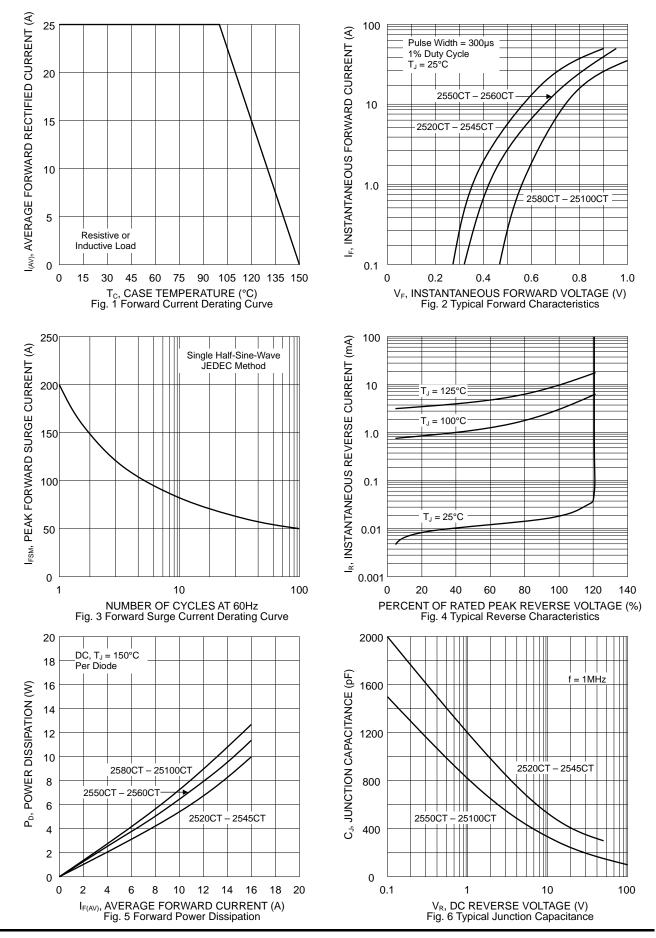
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	MBR 2520CT	MBR 2530CT	MBR 2540CT	MBR 2545CT	MBR 2550CT	MBR 2560CT	MBR 2580CT	MBR 25100CT	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^{\circ} \mbox{C} \\ \mbox{per diode} & @I_{F} = 12.5 \mbox{A}, \mbox{T}_{J} = 125^{\circ} \mbox{C} \\ \end{array} $	Vfm			62 57		•••	75 65	0. 0.		V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm					.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				-	5 .5				°C/W
Operating and Storage Temperature Range	Тյ, Tsтg				-55 to	+150				°C

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

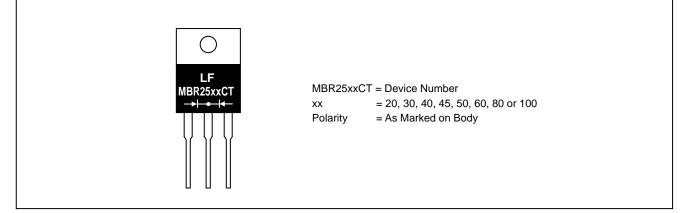


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MARKING INFORMATION



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

