



Schottky Diodes



Features

• Low forward voltage drop

• High efficiency operation

• High temperature epoxy encapsulation

• Excellent mechanical strength and moisture resistance

• Lead wire for easy soldering and high reliability

• Lead length 275mm, conforms to JESD 22-B

Typical Applications

• Rectifier in switching power supply

Mechanical

• Lead length 275mm

• Lead wire meets UL 94 V-0 flammability

Terminal

• Lead wire conforms to J-STD-02 and J-STD-03

• Lead wire

■Maximum Ratings (Ta=25°C)

PARAMETER	UNIT	MAXIMUM RATING
Forward Current	Io	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, Ta=25	IFSM	300
Current Squared Time @1ms≤t≤8.3ms Tj=25	I ² t	A ² s 373
Storage Temperature	T _{stg}	-55 ~ +175
Junction Temperature	Tj	-55 ~ +175

■Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	V _{FM}	V	I _{FM} =20.0A T _j =25	0.5	0.85	0.9
			I _{FM} =20.0A T _j =125	-	0.74	0.78
DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	mA	V _{RM} =V _{RRM} T _j =25	-	-	0.1
	I _{RRM2}		V _{RM} =V _{RRM} T _j =125	-	-	2.0
Junction capacitance	C _j	pF	1MHz and Applied Reverse Voltage of 4.0 V.D.C	200	320	550

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS

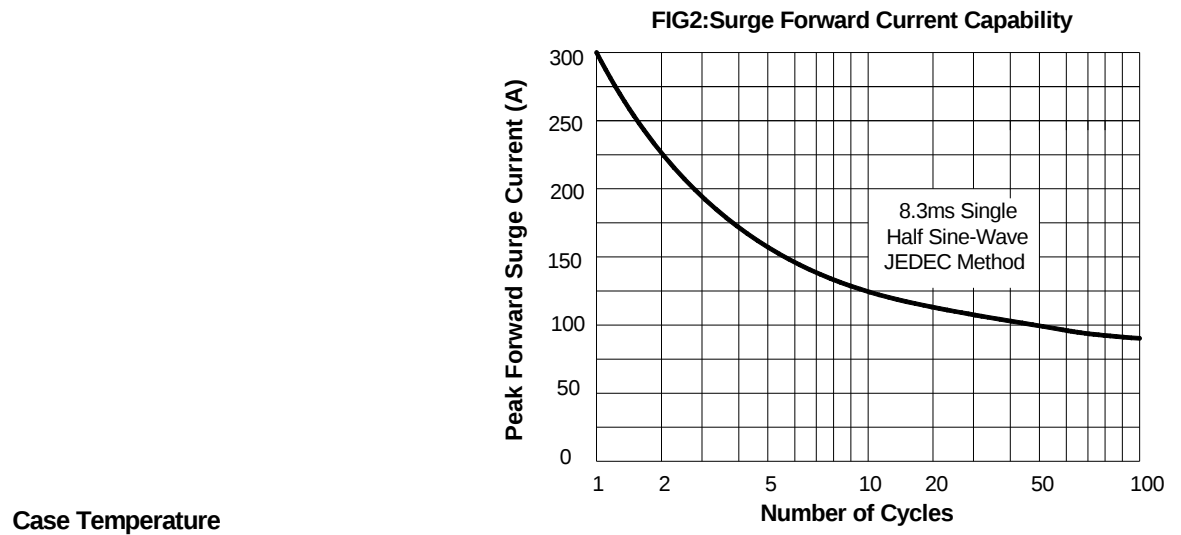


MBR40200CT

■ Thermal Characteristics $T_a=25$ Unless otherwise specified

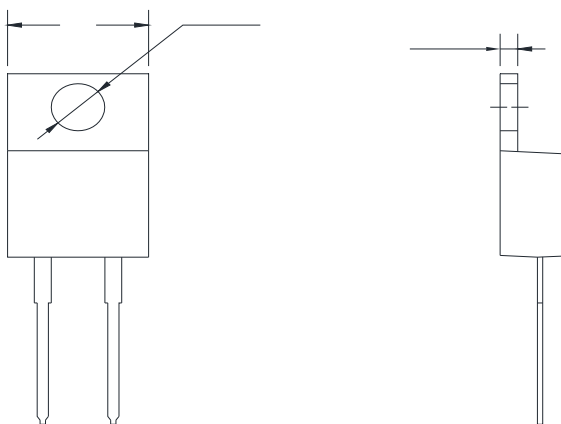
PARAMETER		SYMBOL	UNIT	MBR40200CT
Thermal Resistance	Between junction and ambient	$R_{\theta J-A}$	/W	50.0
	Between junction and case	$R_{\theta J-C}$	/W	2.0

■ Characteristics (Typical)





■Outline Dimensions





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