MBRP20035L

SWITCHMODE[™] **Schottky Power Rectifier**

POWERTAP[™] III Package

... employing the Schottky Barrier principle in a large area metal-to-silicon power diode. State of the art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency switching power supplies, free wheeling diode and polarity protection diodes.

- Very Low Forward Voltage Drop
- Highly Stable Oxide Passivated Junction
- Guardring for Stress Protection
- High dv/dt Capability
- **Mechanical Characteristics:**
- Dual Die Construction
- Case: Epoxy, Molded with Plated Copper Heatsink Base
- Weight: 40 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant
- Base Plate Torques: See procedure given in the Package Outline Section
- Top Terminal Torque: 25–40 lb–in max.
- Shipped 50 units per foam
- Marking: MBRP20035L

MAXIMUM RATINGS

				1
Copper He	eatsink Base			2
/)				5
rosion Resi	istant			
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		(Y 5Y 0	
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			2 2	PO
		3	60	PO C
				I
Symbol	Value	Unit		
V _{RRM}	35	V	N	IARKI
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	200	А		
Ğ	,5			/ м
I _{FRM}	400	А		/
5,0			MB	RP200
				111 200
IFSM	2000	A		
				DERIN
I _{RRM}	2.0	А	Device	F
			MBRP20035L	PO\
T _{stg} , T _C	– 55 to +150	°C		•
TJ	- 55 to +150	°C		
dv/dt	10,000	V/µs		
	rosion Rest re given in t n max. Symbol VRRM VRWM VR Io Ic IFRM IFRM IFRM IFSM IRRM Tstg, T _C T _J	Symbol Value N max. 35 VRRM VRWM VR 35 Io 200 IFRM 400 IFRM 2000 IFRM 2000 IFRM 2000 IFRM 2000 IFRM 2000 IFSM 2000 IFSM 2000 IFSM 2000 IFSM 2000 IFSM 2000	Symbol Value Unit VRRM VR 35 V Io 200 A IFRM 400 A IFRM 2000 A IFRM 2000 A IFRM 2000 A IFRM 2000 A IFSM 2000 A	The given in the sistent regiven in the nax. $\begin{array}{c c c c c c c } \hline Symbol Value Unit \\ \hline V_{RRM} 35 V \\ \hline V_{RWM} 35 V \\ \hline V$



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SCHOTTKY BARRIER RECTIFIER 200 AMPERES 35 VOLTS



POWERTAP III CASE 357D PLASTIC

MARKING DIAGRAM



MBRP20035L = Device Code

ORDERING INFORMATION

Device	Package Shipping	
MBRP20035L	POWERTAP III	50 Units/Foam

MBRP20035L

THERMAL CHARACTERISTICS

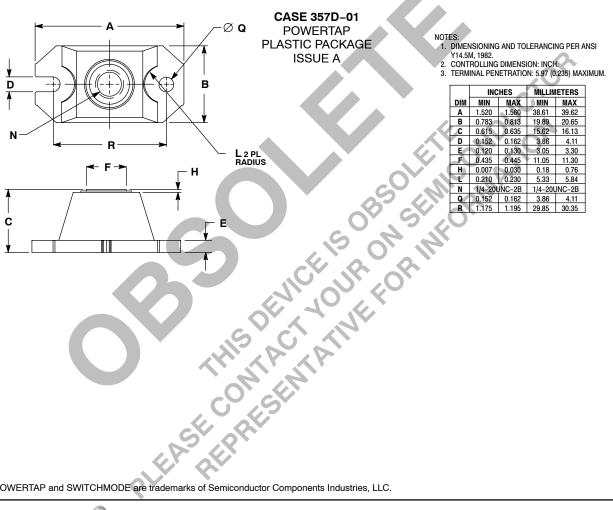
Characteristic	Symbol	Value	Unit
Thermal Resistance — Junction-to-Case	$R_{\theta JC}$	0.45	°C/W
	•	•	

ELECTRICAL CHARACTERISTICS

Maximum Instantaneous Forward Voltage (Note 1.)	V _F	$T_J = 25^{\circ}C$	T _J = 100°C	Volts
(I _F = 200 A)		0.57	0.5	
Maximum Instantaneous Reverse Current	I _R	T _J = 25°C	T _J = 100°C	mA
(V _R = 35 V)		10	250	

1. Pulse Test: Pulse Width \leq 380 µs, Duty Cycle $\leq 12\%$.

PACKAGE DIMENSIONS



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