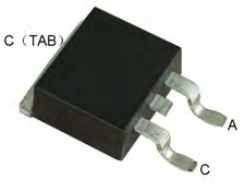
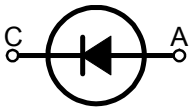
MBRB2515L

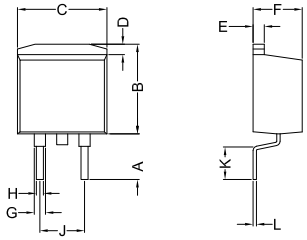
High Tjm Low IRRM Schottky Barrier Diodes





A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-263(D^2PAK)



Dim.	Millimeter		Inches	
	Min.	Max.	Min.	Max.
A	5.00	5.60	0.197	0.220
B	9.32	10.52	0.337	0.414
C	9.60	10.40	0.378	0.409
D	1.10	1.40	0.047	0.055
E	1.20	1.50	0.051	0.059
F	4.32	4.82	0.170	0.190
G	1.15	1.65	0.045	0.065
H	0.64	1.00	0.025	0.040
J	4.80	5.20	0.177	0.200
K	2.80	3.90	0.110	0.154
L	0.30	0.45	0.012	0.017

	V_{RRM} V	V_{RMS} V	V_{DC} V
MBRB2515L	15	10.5	15

Symbol	Characteristics	Maximum Ratings	Unit
$I_{(AV)}$	Maximum Average Forward Rectified Current @T_C=90°C	25	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half-Sine-Wave Superimposed On Rated Load (JEDEC METHOD)	150	A
dv/dt	Voltage Rate Of Change (Rated V_R)	10000	V/us
V_F	Maximum Forward Voltage At (Note 1) I_F=19A @T_J=70°C I_F=25A @T_J=70°C I_F=25A @T_J=25°C	0.28 0.42 0.45	V
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage @T_J=25°C @T_J=100°C	15 200	mA
$R_{\theta JC}$	Typical Thermal Resistance (Note 3)	1.0	°C/W
C_J	Typical Junction Capacitance Per Element (Note 2)	1150	pF
T_J	Operating Temperature Range	-55 to +125	°C
T_{STG}	Storage Temperature Range	-55 to +150	°C

NOTES: 1. 300us Pulse Width, Duty Cycle 2%.
2. Measured At 1.0MHz And Applied Reverse Voltage of 4.0V DC.
3. Thermal Resistance Junction To Case.

FEATURES

* Guard ring for transient protection
* Low power loss, high efficiency
* High current capability, low V_F
* High surge capacity
* For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
* RoHS compliant

MECHANICAL DATA

* Case: D^2PAK molded plastic
* Polarity: As marked on the body
* Weight: 1.6 grams

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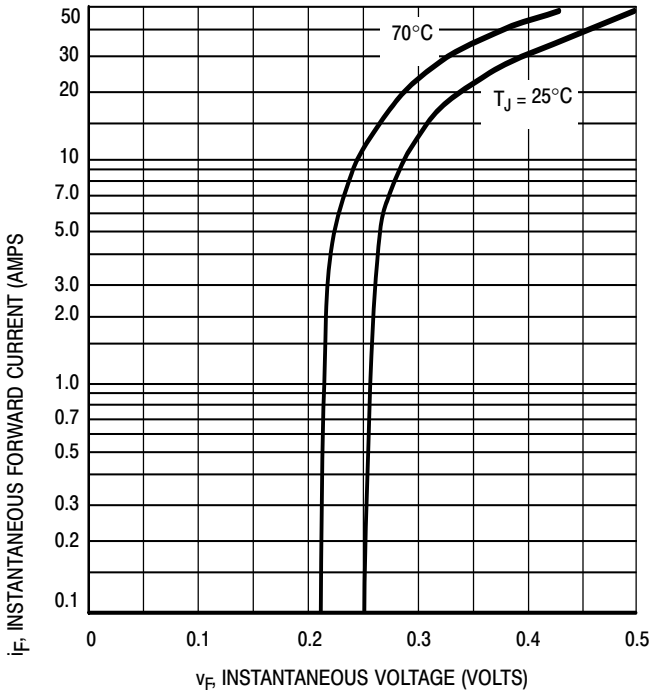

Figure 1. Typical Forward Voltage

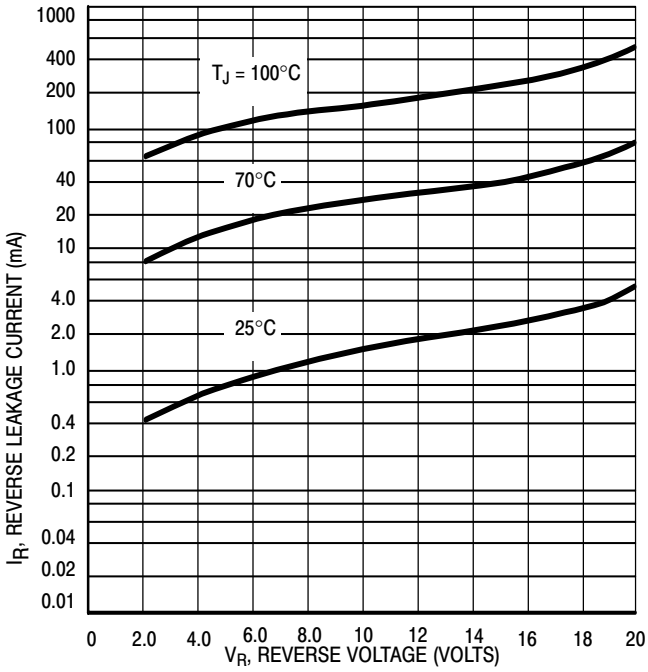

Figure 2. Typical Reverse Leakage Current

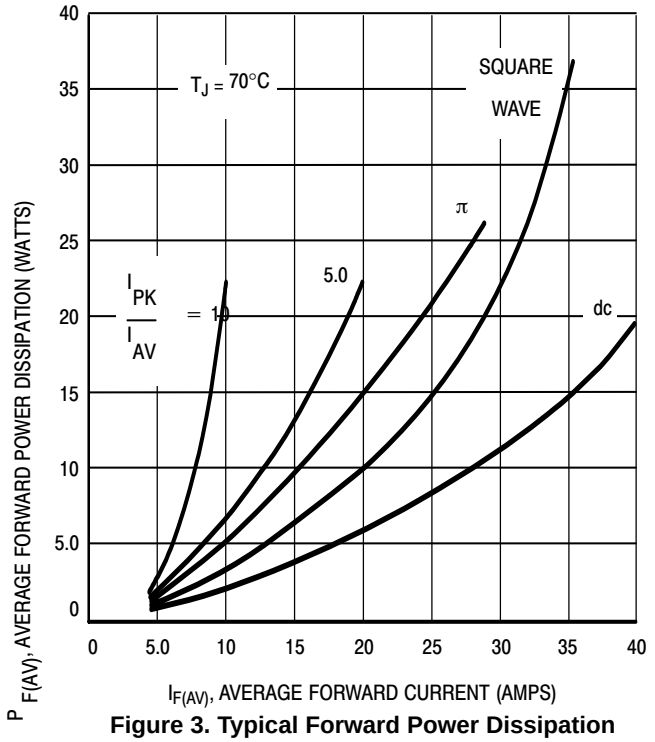

Figure 3. Typical Forward Power Dissipation

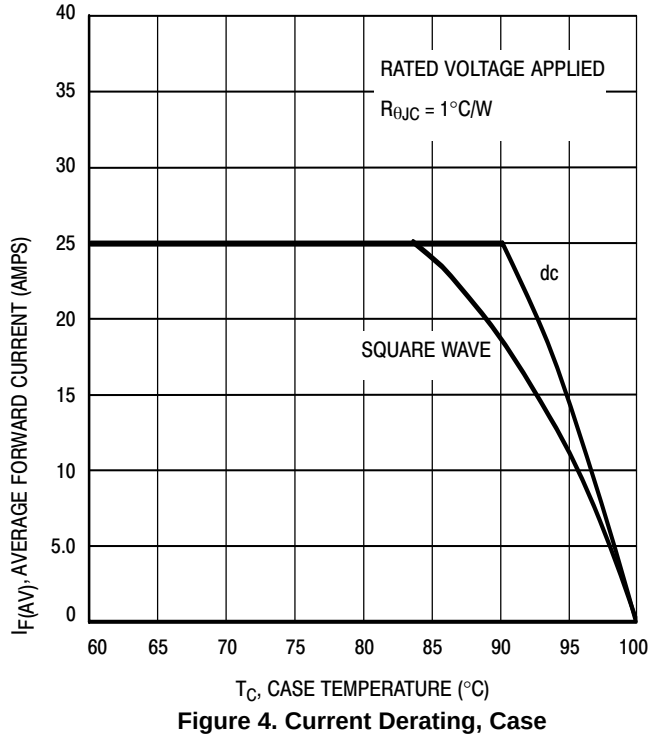

Figure 4. Current Derating, Case

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