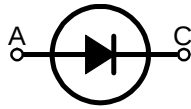
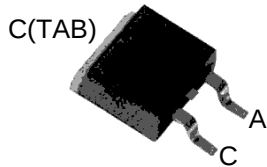


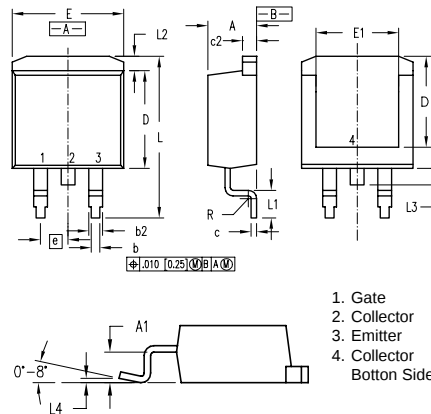
MBRB2515L

Wide Temperature Range and High T_{jm} Schottky Barrier Rectifiers



A=Anode, C=Cathode, TAB=Cathode

Dimensions TO-263(D²PAK)



Dim.	Millimeter Min.	Millimeter Max.	Inches Min.	Inches Max.
A	4.06	4.83	.160	.190
A1	2.03	2.79	.080	.110
b	0.51	0.99	.020	.039
b2	1.14	1.40	.045	.055
c	0.46	0.74	.018	.029
c2	1.14	1.40	.045	.055
D	8.64	9.65	.340	.380
D1	8.00	8.89	.315	.350
E	9.65	10.29	.380	.405
E1	6.22	8.13	.245	.320
e	2.54 BSC		.100 BSC	
L	14.61	15.88	.575	.625
L1	2.29	2.79	.090	.110
L2	1.02	1.40	.040	.055
L3	1.27	1.78	.050	.070
L4	0	0.20	0	.008
R	0.46	0.74	.018	.029

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

Symbol	Characteristics	Maximum Ratings	Unit
I_{AV}	Maximum Average Forward Rectified Current @ $T_C=90^\circ\text{C}$	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) $I_F=19A$ @ $T_J=70^\circ\text{C}$ $I_F=25A$ @ $T_J=70^\circ\text{C}$ $I_F=25A$ @ $T_J=25^\circ\text{C}$	0.28 0.42 0.45	V
I_R	Maximum DC Reverse Current At Rated DC Blocking Voltage @ $T_J=25^\circ\text{C}$ @ $T_J=100^\circ\text{C}$	15 200	mA
$R_{\theta JC}$	Typical Thermal Resistance (Note 3)	1.0	$^\circ\text{C/W}$
C_J	Typical Junction Capacitance Per Element (Note 2)	1150	pF
T_J	Operating Temperature Range	-55 to +125	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$

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 whelling, and polarity protection applications

MECHANICAL DATA

- * Case: D²PAK molded plastic
- * Polarity: As marked on the body
- * Weight: 0.06 ounces, 1.7 grams

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Wide Temperature Range and High T_{jm} Schottky Barrier Rectifiers

FIG. 1 - FORWARD CURRENT DERATING CURVE

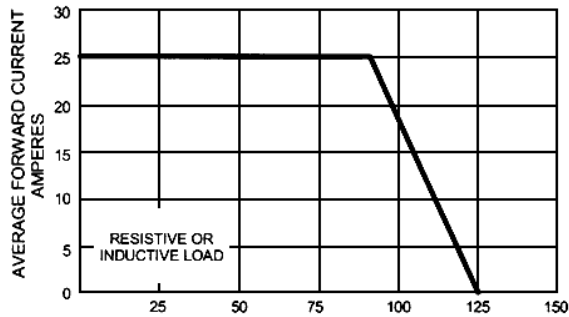


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

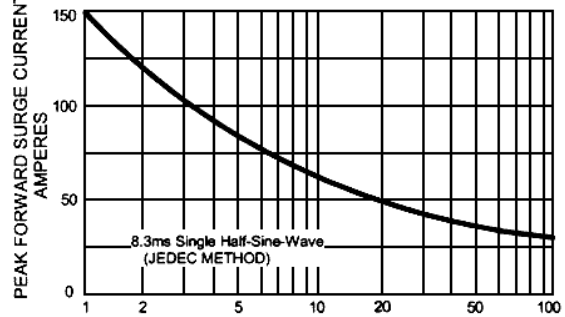


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

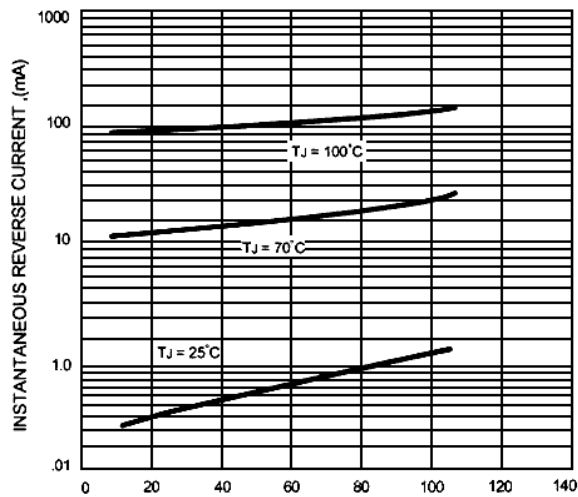


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

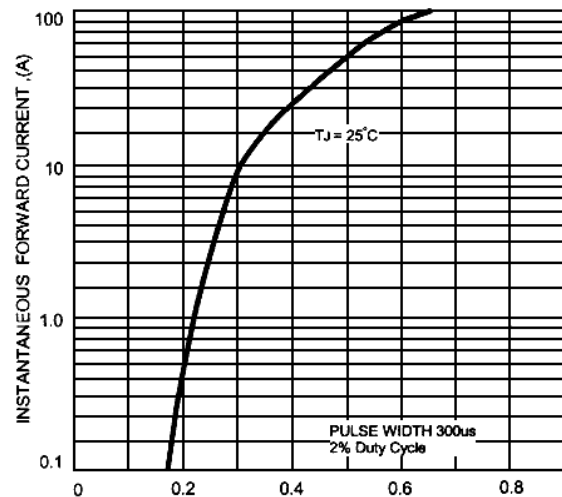


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

