



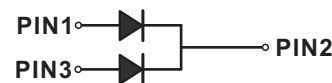
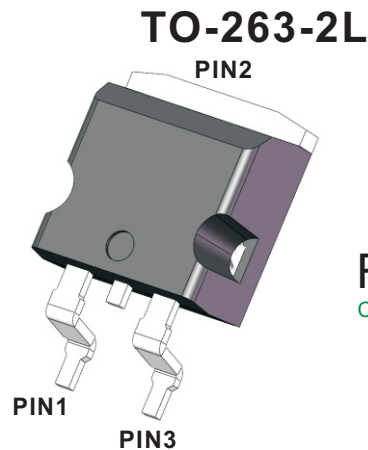
Extrtreme Low VF Schottky Barrier Rectifiers
Reverse Voltage - 150 Volts
Forward Current - 30 Amperes

Features

- High current capability
- Low forward voltage drop
- Low power loss, high efficiency
- High surge capability
- High temperature soldering guaranteed
- Mounting position: any

Mechanical data

- Case: TO-263-2L
- Approx Weight: 1.52g (0.053oz)
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.



Packing Marking And Ordering Information

Device Package	Device	Marking	Packing Type	QTY Per Reel	Inner box	Per Carton
TO-263-2L	MBRT30150GD	MBRT30150GD	Reel	800 Pcs	1,600 Pcs	8,000 Pcs

Maximum Ratings And Electrical Characteristics

Ratings At 25°C Ambient Temperature Unless Otherwise Specified

Characteristics	Symbols	MBRT30150GD	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Average Rectified Forward Current Per leg Per device	I_o	15 30	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	200	A
Operating Junction Temperature Range	T_j	-55 ~ +150	°C
Storage Temperature Range	T_{stg}	-55 ~ +150	°C

Characteristics	Symbols	Test Conditions	Min	Typ	Max	Units
Breakdown voltage per leg	V_{BR}	$I_R=0.1mA$	150			V
Instantaneous forward voltage per leg	V_F	$I_F=15A, T_J=25^\circ C$		0.82	0.90	V
Reverse current per leg	I_R	$V_R=150V, T_J=25^\circ C$			0.1	mA



Fig.1 Typical Forward Current Derating Curve

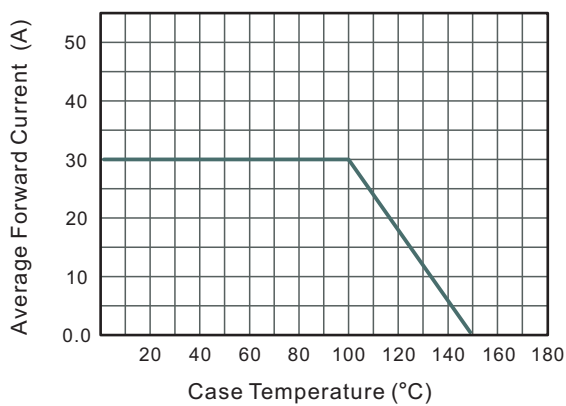


Fig.2 Typical Reverse Characteristics

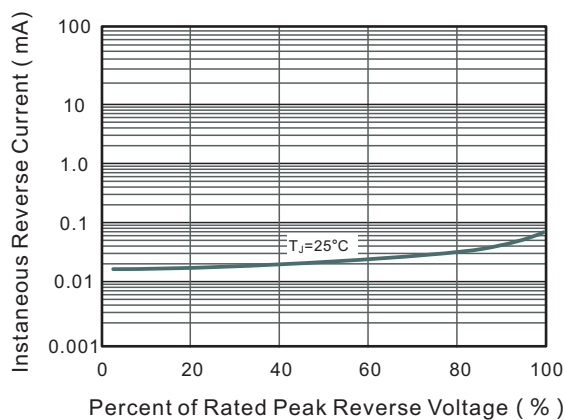


Fig.3 Typical Forward Characteristic(per leg)

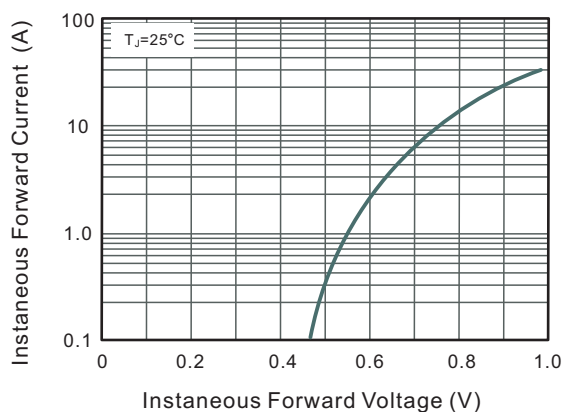
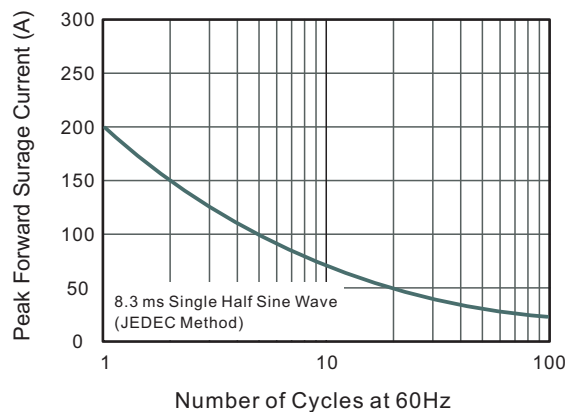


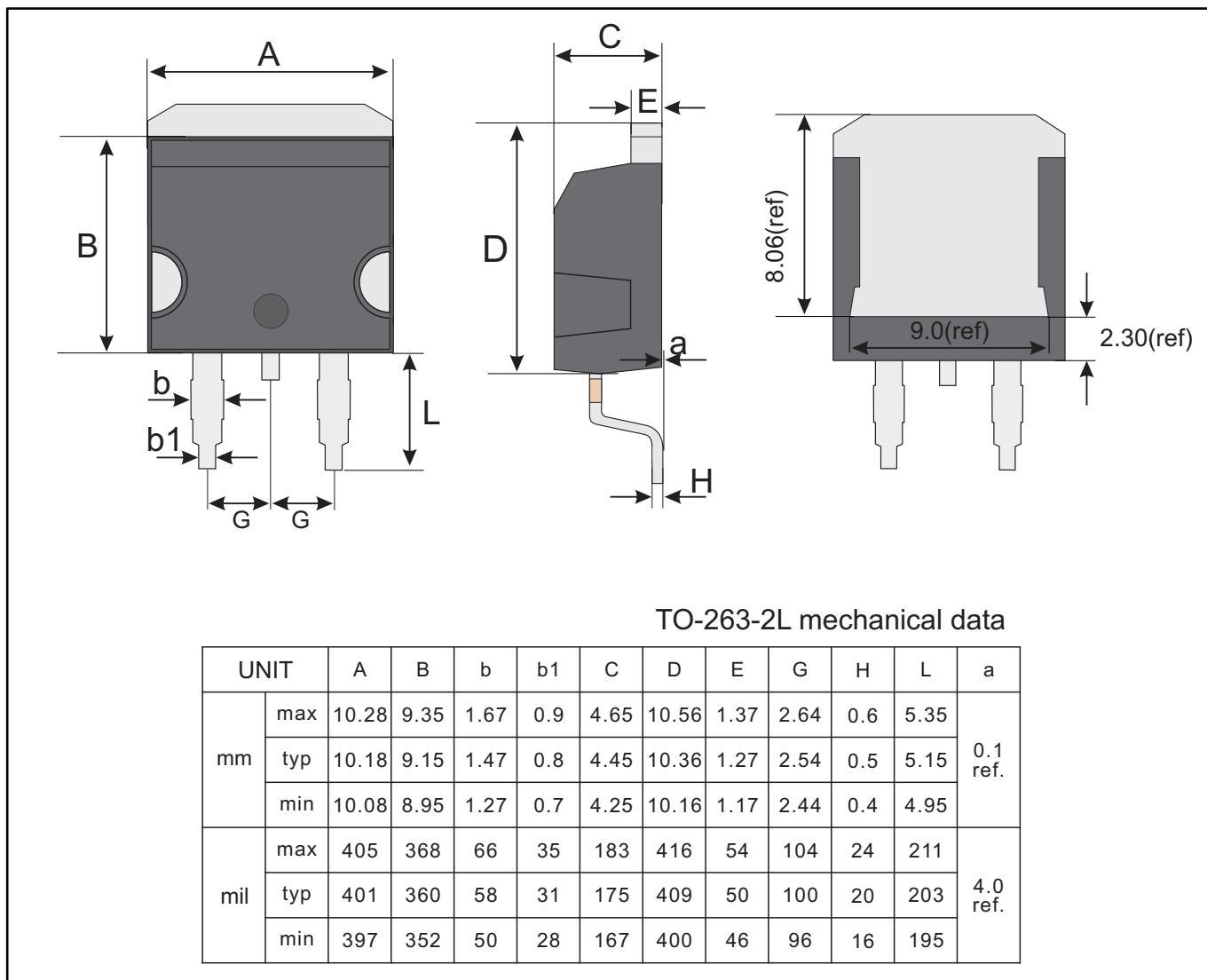
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



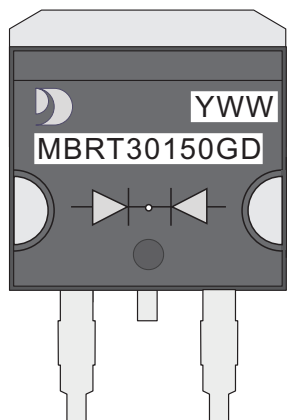


Package Outline
Plastic surface mounted package; 2 leads

TO-263-2L



Marking Diagram



YWW: Date Code
Y:Years(0~9)
WW:Week
MBRT30150GD: Product name
(NOTE:The weekly code is based on the actual number of weeks in the calendar year.)



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