



MBRD10150CT

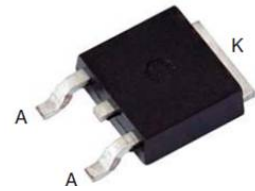
Schottky Barrier Rectifier

Reverse Voltage 150 Volts Forward Current 10 Amperes

Features

- Plastic package has underwriters Laboratory Flammability Classification 94V-0
- Dual rectifier construction, positive center tap
- Metal of silicon rectifier, majority carrier conduction
- Low forward voltage, high efficiency
- Guarding for over voltage protection

TO-252 (D-PAK)



Package: TO-252(D-PAK)



Mechanical Data

- Case: Epoxy, Molded
- Weight: 0.4grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 2500 units per reel

Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	MBRD10150CT	UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	150	V
Working peak reverse voltage			V _{RWM}	150	V
Maximum DC blocking voltage			V _{DC}	150	V
Maximum average forward rectified current at T _C =105°C total device / per diode			I _{F(AV)}	10 5	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			I _{FSM}	120	A
Peak repetitive reverse current per leg at t _p =2.0us ,1KHz			I _{RRM}	1.0	A
Voltage rate of change (rated V _R)			DV/dt	10000	V/us
Operating junction temperature range			T _J	—55 to+150	°C
Storage temperature range			T _{STG}	—55 to+150	°C
Maximum instantaneous forward voltage per leg	I _F =5A I _F =5A	T _C =25°C T _C =125°C	V _F	0.92 0.82	V
Maximum reverse current per leg at working peak Reverse voltage		T _J =25°C T _J =100°C	I _R	200 15	uA mA

Thermal Characteristics T_A=25°C unless otherwise noted

Symbol	Parameter	TYP (TO-252)	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	3.5	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	°C /W

Note: Pulse test:300us pulse width, duty cycle=2%



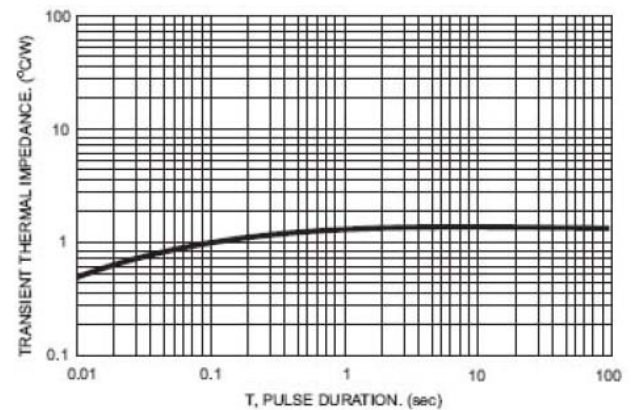
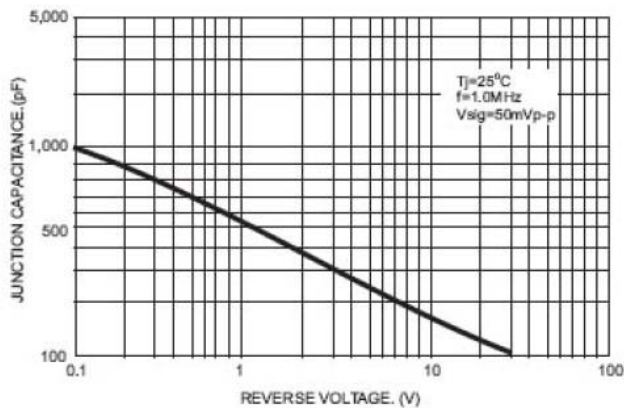
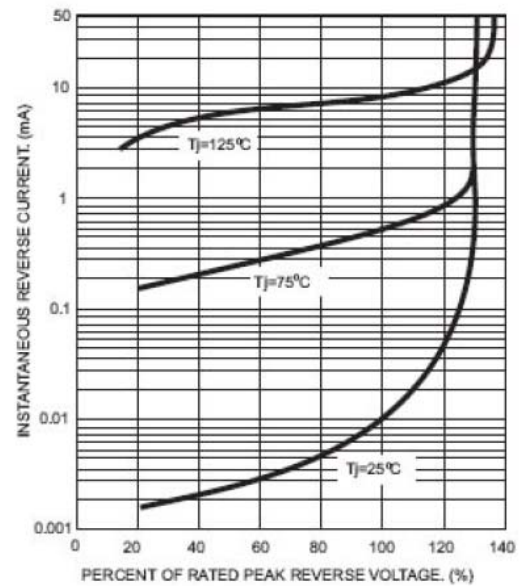
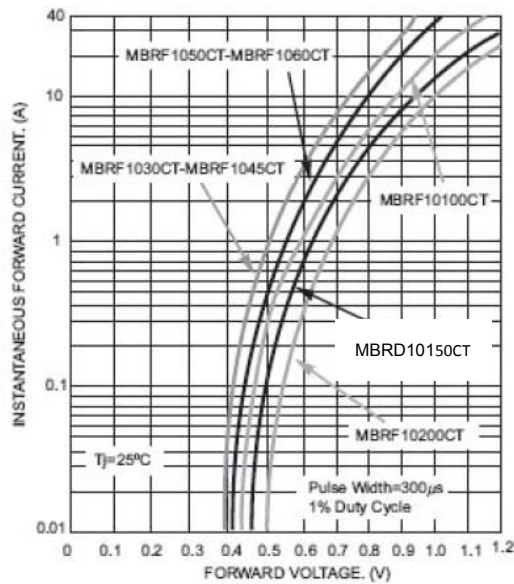
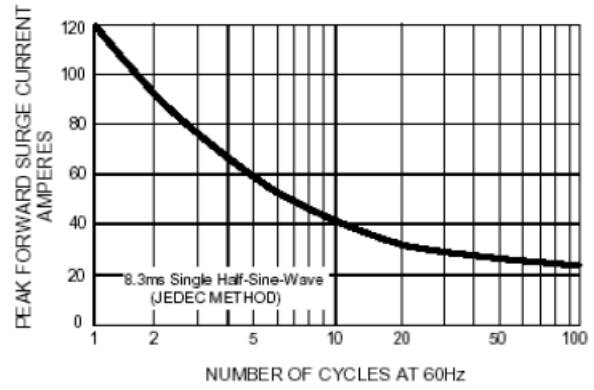
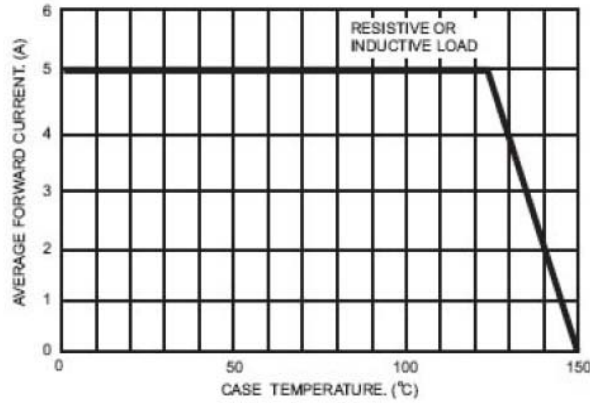
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Ratings and Characteristics Curves

($T_A = 25^\circ\text{C}$ unless otherwise noted)





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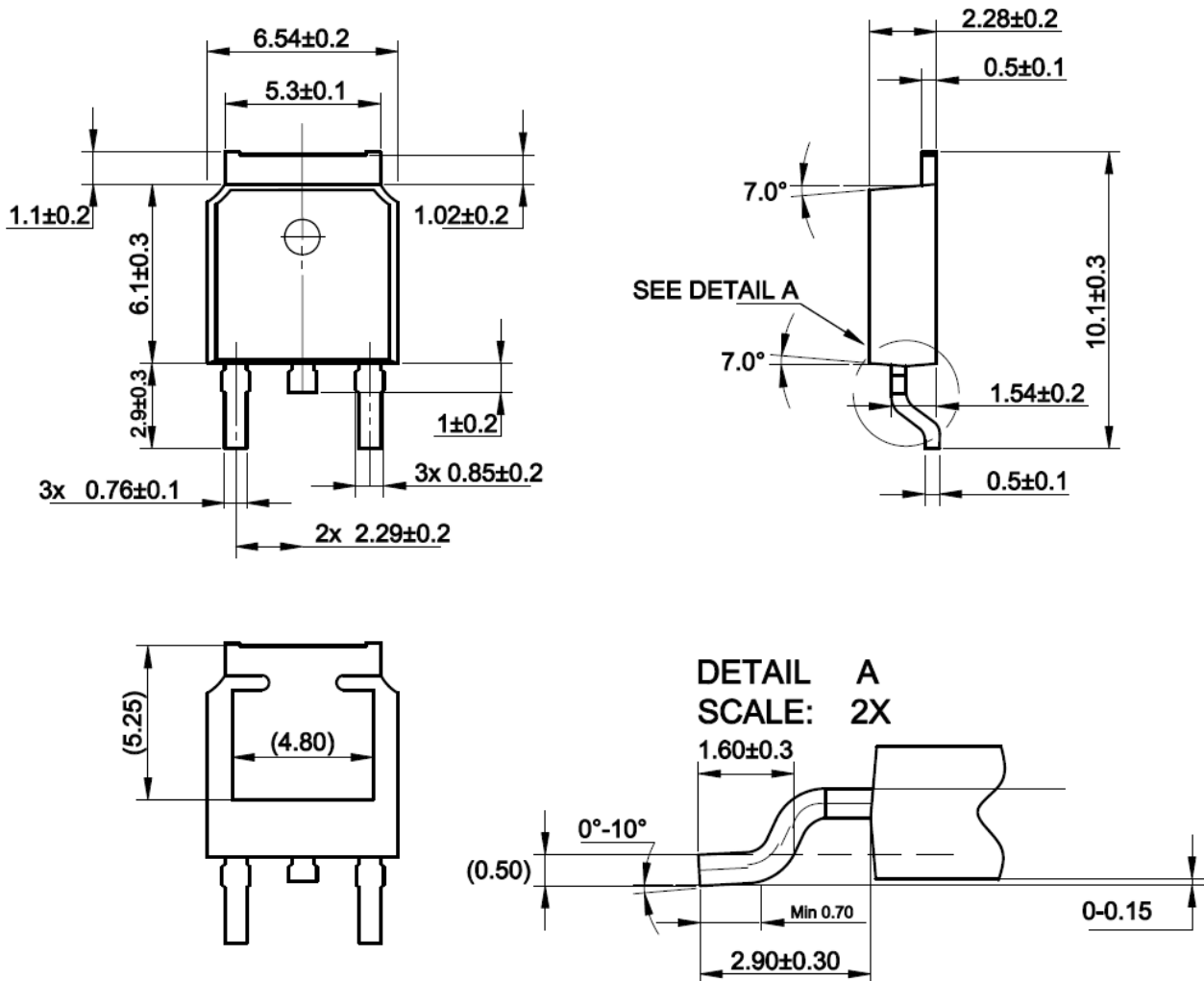
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Package Outline Dimensions

Unit: millimeters

TO-252(D-PAK)





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