

Schottky Barrier Rectifier Reverse Voltage 100 Volts Forward Current 6 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

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

1	T₄=25°C	unless	otherwise	noted)
1	1A-20 C	unicoo	00101010030	noteu	,

PARAMETER		TEST CONDITIONS		SYMBOL	MBR6100CT	UNIT
Maximum repetitive peak reverse voltage				Vrrm	100	V
Working peak reverse voltage				Vrwm	100	V
Maximum DC blocking voltage				VDC	100	V
Maximum average forward rectified current at				IF(AV)	6	А
T₀=105°C total device per diode					3	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode				Ігэм	100	A
Peak repetitive reverse current per leg at tp=2.0us ,1KHz				Irrm	1.0	А
Voltage rate of change (rated VR)				Dv/dt	10000	V/us
Operating junction temperature range				TJ	—55 to+150	°C
Storage temperature range			Тѕтс		—55 to+150	°C
Maximum instantaneous forward voltage per leg			Tc =25 ℃		0.76	
		I⊧=3A	Tc =125 ℃	VF	0.70	V
Maximum reverse current per leg at working peak Reverse voltage			T J=25 ℃	lr	50	uA
			TJ=100°C		5	mA
	Thermal Characteristics T	ຸ a=25℃ un	less otherwis	se noted		
Symbol	Parameter	TYP (TO-2		52)	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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Package: TO-252(D-PAK)

TO-252 (D-PAK)

MBRD6100CT



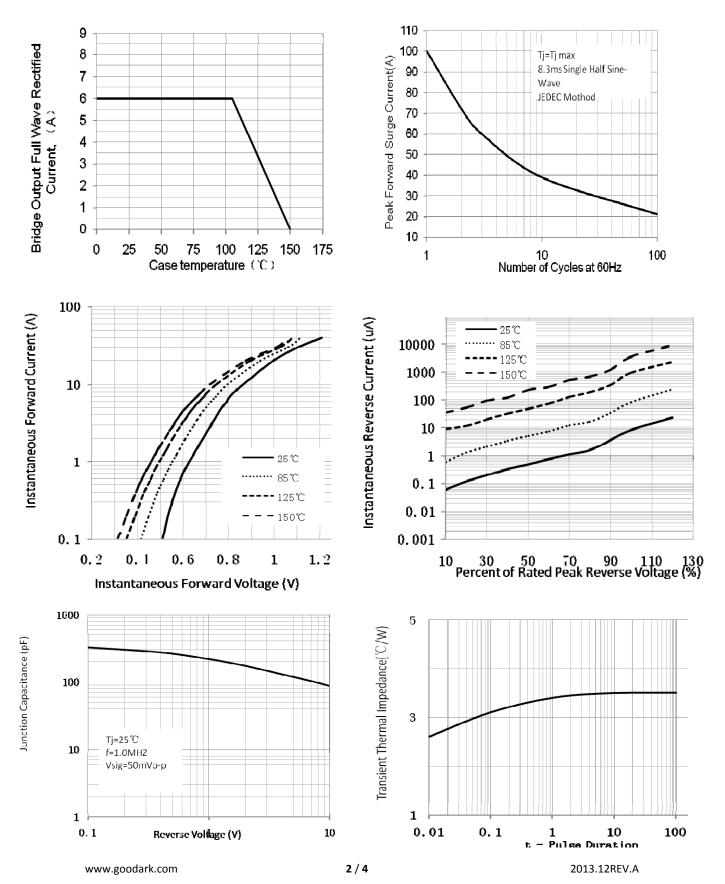


MBRD6100CT

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Ratings and Characteristics Curves

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



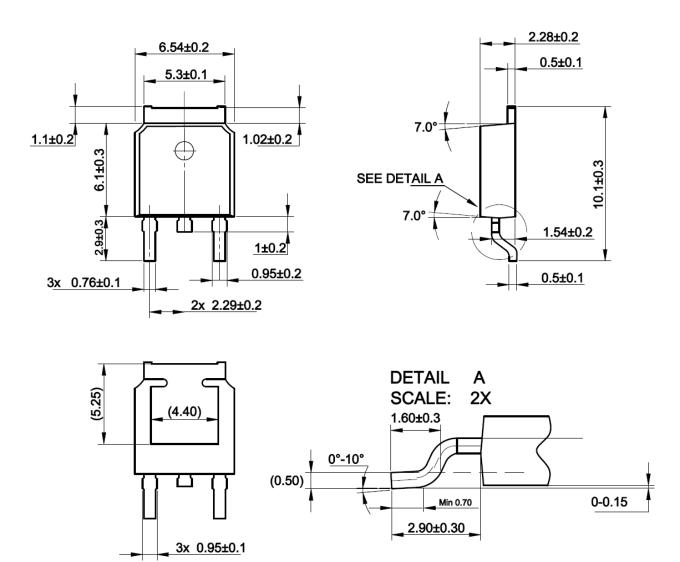


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Package Outline Dimensions

Unit: millimeters

TO-252(D-PAK)





MBRD6100CT

Schottky Barrier Rectifier

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