

MURB1040CT

Ultrafast Recovery Planar Diode Reverse Voltage 400 Volts Forward Current 10 Amperes

Features

- •FRED (Planar) wafer construction
- •Ultrafast recovery time
- Low forward voltage drop, low power losses
- High efficiency operation
- Plastic package has underwriters Laboratory
 Flammability Classification 94V-0



Package: TO-263

PIN 1 O K O HEATSINK

Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.4grams (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 50 units per plastic tube or tape reel packing 800/reel

Maximum Ratings & Electrical Characteristics

(TA=25°C unless otherwise noted)

PARAMETER	TEST CONDITIONS		SYMBOL	MURB1040CT	UNIT
Maximum repetitive peak reverse voltage			VRRM	400	V
Working peak reverse voltage			VRWM	400	V
Maximum DC blocking voltage			VDC	400	V
Maximum average forward rectified current at			IF(AV)	10	Α
T _c =105°C total device per diode				5	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode			Іғѕм	90	Α
Voltage rate of change(rated V _R)			Dv/dt	10000	V/us
Operating junction temperature range			TJ	—55 to+150	°C
Storage temperature range			Тѕтс	—55 to+150	°C
Maximum Reverse Recover Time (If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)	Trr		Trr	35	ns
Maximum instantaneous forward voltage per leg	IF=5A IF=5A	Tc=25℃ Tc=125℃	VF	1.40 1.30	V
Maximum reverse current per leg at working peak		TJ=25℃		10	uA
Reverse voltage		T _J =100°C		500	uA
Thermal Characteristics Ta=	25℃ un	less otherw	ise noted	ı	
Symbol Parameter	TYP. (TO-263)			Unit	
ReJC Thermal Resistance, Junction to Case per Leg	2.0				°C /W
ReJA Thermal Resistance, Junction to Ambient per Leg	62.5				°C /W

 $\textbf{Note}: \textbf{Pulse test:} 300 us \ \textbf{pulse width, duty cycle=2\%}$

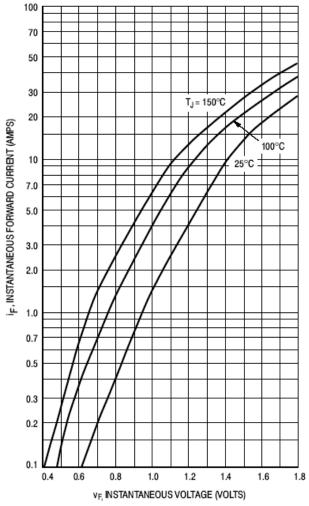


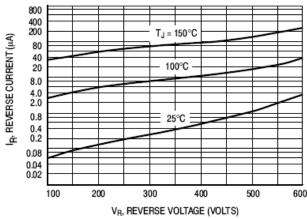
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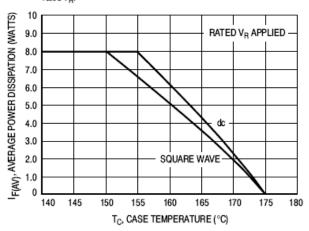
Ratings and Characteristics Curves

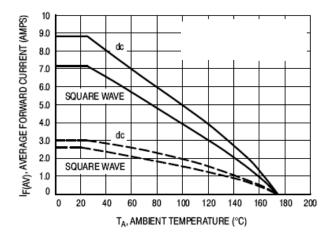
(T_A = 25°C unless otherwise noted)

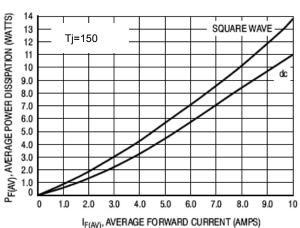




* The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these same curves if V_R is sufficiently below rated V_R .

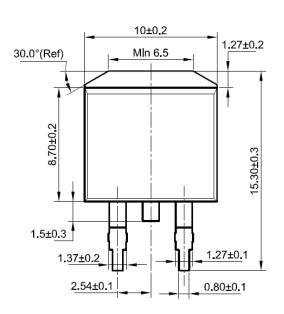


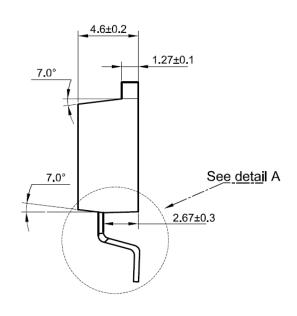


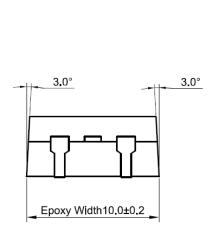


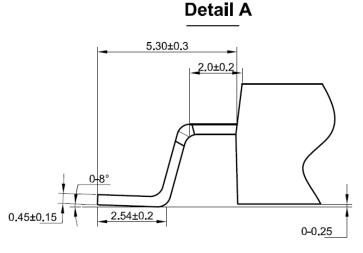
Package Outline Dimensions

Unit: millimeters TO-263











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