

Ultrafast Recovery Planar Diode Reverse Voltage 400 Volts Forward Current 8 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-220-AC Package: ITO-220-AC



Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams (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

Maximum Ratings & Electrical Characteristics

(TA=25°C unless otherwise noted)

	PARAMETER		TEST		BOL	MUR840(F)	UNIT
		CONI	DITIONS				
Maximum rep	petitive peak reverse voltage			VRRM		400	V
Working peal	c reverse voltage			VRWM		400	V
Maximum DC	blocking voltage			VDC		400	V
Maximum ave	erage forward rectified current at			IF(AV)	IF(AV)		А
Tc=105°C tota	al device per diode					0	
Peak forward surge current 8.3ms single half sine-wave superimposed				Ifsм		120	А
on rated load	ted load per diode						
Voltage rate of change (rated V _R)			Dv			10000	V/us
Operating junction temperature range		TJ		TJ		—55 to+150	°C
Storage temp	Storage temperature range			Тѕтѕ		—55 to+150	°C
Maximum Re	verse Recover Time	Trr		Trr		35	
(If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)		ım		ım		35	ns
Maximum ins	tantaneous forward voltage per leg	I=8A	Tc=25℃	VF		1.30	V
		I=8A	Tc=125℃			1.20	
Maximum reverse current per leg at working peak		TJ=25℃				10	uA
Reverse voltage			T _J =100°C	l _R		500	uA
	Thermal Characteristics Ta	= 25℃ unl	less otherwi	se note	d		
Symbol	Parameter	TYP (TO	O-220-AC)	TYP (IT		O-220-AC)	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0		4	1.0		°C /W

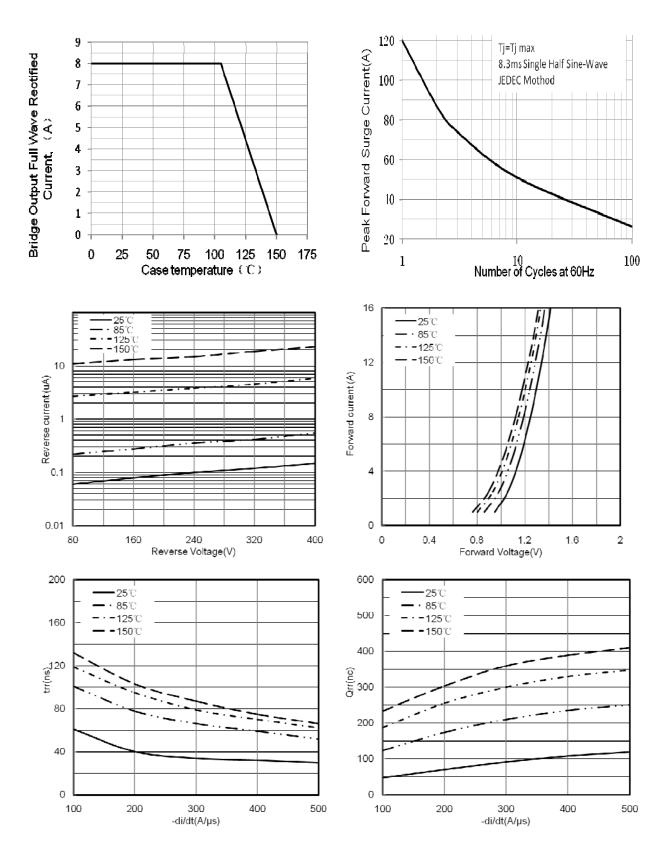
Symbol	Parameter	TYP (TO-220-AC)	TYP (ITO-220-AC)	Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0	4.0	°C /W
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5	62.5	°C /W

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

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Ratings and Characteristics Curves

(T_A = 25^oC unless otherwise noted)

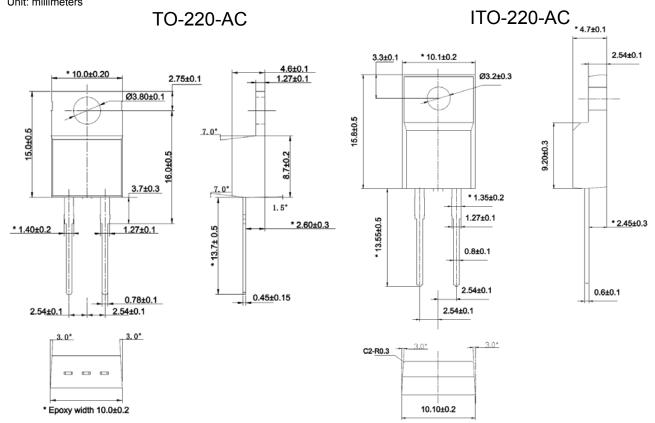




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Package Outline Dimensions

Unit: millimeters





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