

Ultrafast Recovery Planar Diode Reverse Voltage 600 Volts Forward Current 15 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		SYMBOL		MUR1560(F)	UNIT
		CONDITIONS					
Maximum repetitive peak reverse voltage				VRRM		600	V
Working peak reverse voltage				VRWM		600	V
Maximum DC blocking voltage				VDC		600	V
Maximum average forward rectified current at				Ir(AV)		15	А
T₀=105°C total device per diode							
Peak forward surge current 8.3ms single half sine-wave superimposed				IFSM		150	А
on rated load per diode						150	
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		Trr		_		50	
(If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)		Irr		Trr		50	ns
Maximum instantaneous forward voltage per leg		I=15A	Tc=25℃	VF		1.60	V
		I=15A	Tc=125℃			1.50	
Maximum reverse current per leg at working peak			TJ=25℃			10	uA
Reverse voltage			T _J =100°C	lR		500	uA
	Thermal Characteristics TA	= 25℃ unl	ess otherwi	ise no	ted		•
Symbol	Parameter	TYP (TO	D-220-AC)		TYP (ITO-220-AC)		Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0			4.0		

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

Thermal Resistance, Junction to Ambient per Leg

RθJA

62.5

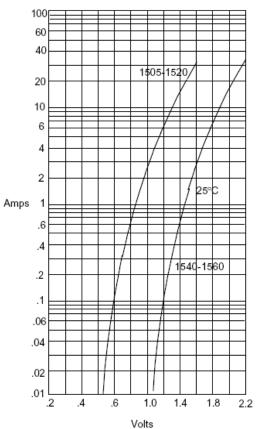
62.5

°C /W

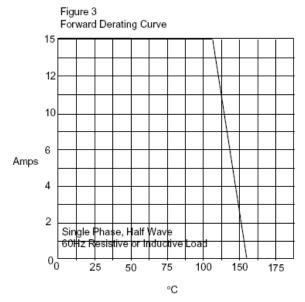
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Ratings and Characteristics Curves

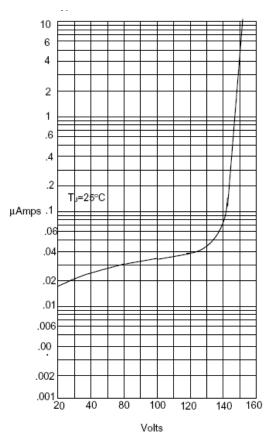
(T_A = 25^oC unless otherwise noted)



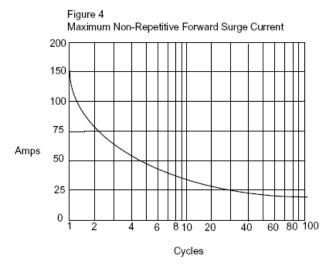
Instantaneous Forward Current - Amperes versus Instantaneous Forward Voltage - Volts



Average Forward Rectified Current - Amperes*versus* Case Temperature -°C



Instantaneous Reverse Leakage Current - MicroAmperes versus Percent Of Rated Peak Reverse Voltage - Volts



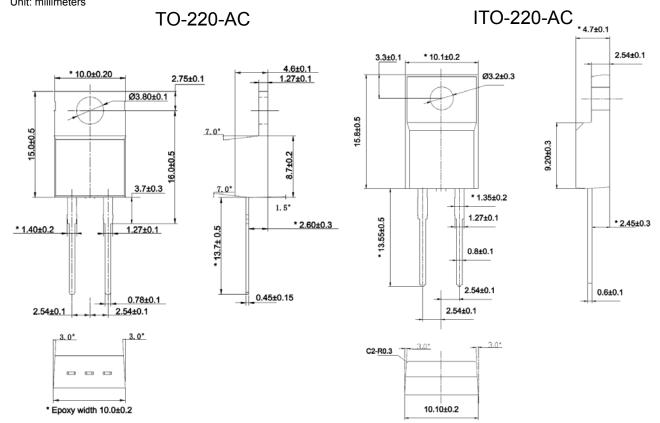
Peak Forward Surge Current - Amperes/ersus Number Of Cycles At 60Hz - Cycles



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Package Outline Dimensions

Unit: millimeters





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