

MUR1060(F)

Ultrafast Recovery Planar Diode Reverse Voltage 600 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-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

(T_A=25°C unless otherwise noted)

PARAMETER		TEST		SYMBOL	MUR1060(F)	UNIT
		CONI	DITIONS			
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				IF(AV)	40	Α
T _c =105°C total device per diode					10	
Peak forward surge current 8.3ms single half sine-wave superimposed				Iгsм	105	Α
on rated load per diode					125	
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		Trr	50	
(If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)					50	ns
Maximum instantaneous forward voltage per leg		I=10A	Tc=25℃	VF	1.60	V
		I=10A	Tc=125℃	VF	1.50	
Maximum reverse current per leg at working peak			TJ=25°C		10	uA
Reverse voltage			TJ=100°C	I R	500	uA
	Thermal Characteristics TA	= 25℃ un l	ess otherwi	ise noted	•	
Symbol	Parameter	TYP (TO	D-220-AC)	TYP	TYP (ITO-220-AC)	
RθJC	Thermal Resistance, Junction to Case per Leg	2.0		4.0	_	°C /W

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)

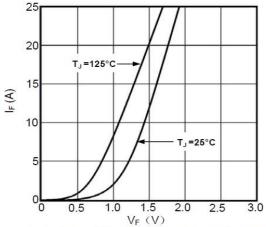


Fig1. Forward Voltage Drop vs Forward Current

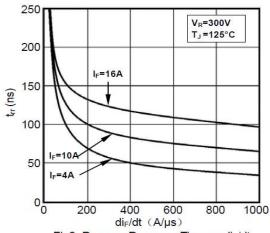


Fig2. Reverse Recovery Time vs di_F/dt

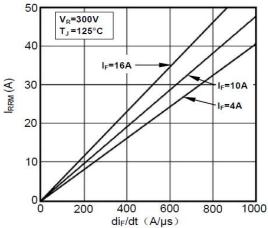


Fig3. Reverse Recovery Current vs di_F/dt

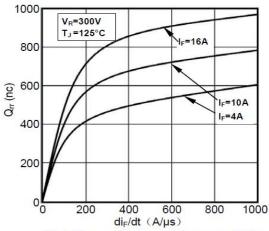


Fig4. Reverse Recovery Charge vs di_F/dt

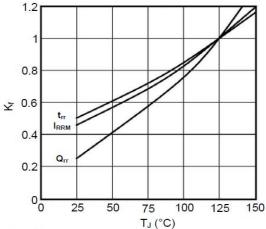


Fig5. Dynamic Parameters vs Junction Temperature

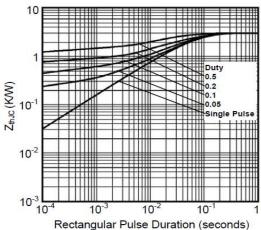


Fig6. Transient Thermal Impedance

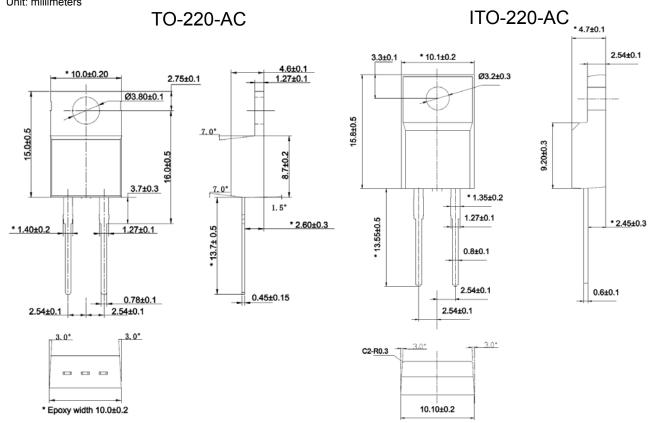


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Package Outline Dimensions

Unit: millimeters





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