

MUR1040(F)CT

1. Anode 2.Cathode 3. Anode

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: ITO-220-AB

Package: TO-220-AB

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	MUR1040(F)CT	UNIT
		CON	DITIONS			
Maximum repetitive peak reverse voltage				VRRM	400	٧
Working peak reverse voltage				VRWM	400	٧
Maximum DC blocking voltage				VDC	400	٧
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				Ifsм	70	Α
on rated load per diode					70	
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	35	
(If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)						ns
Maximum instantaneous forward voltage per leg		I _F =5A	Tc=25℃	VF	1.40	V
		I _F =5A	Tc=125℃	VF	1.30	
Maximum reverse current per leg at working peak			TJ=25℃		10	uA
Reverse voltage			TJ=100°C	l _R	500	uA
	Thermal Characteristics TA	= 25 ℃ un	less otherwi	se noted	1	
Symbol	Parameter	TYP (TO-220-AB)		TYP	TYP (ITO-220-AB)	
RθJC	Thermal Resistance, Junction to Case per Leg	2.0		4.0	4.0	
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5		62.5	62.5	
1						

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

Ratings and Characteristics Curves

(T_A = 25°C unless otherwise noted)

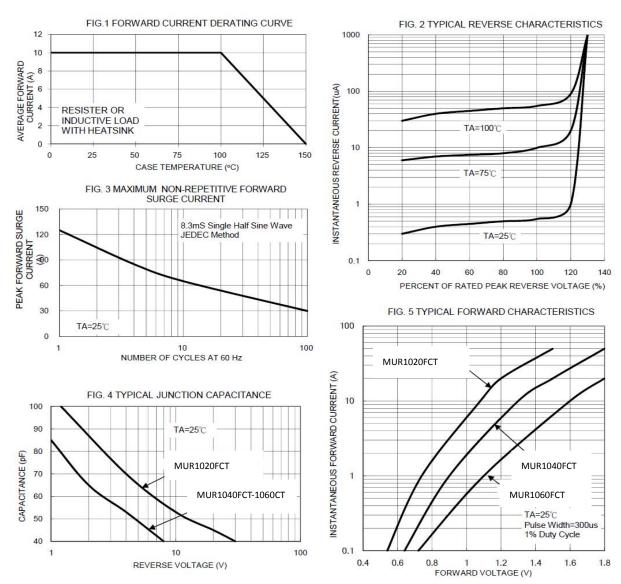
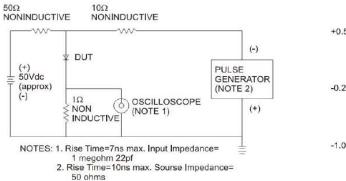
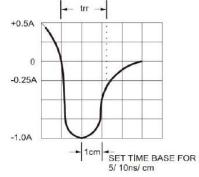


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM





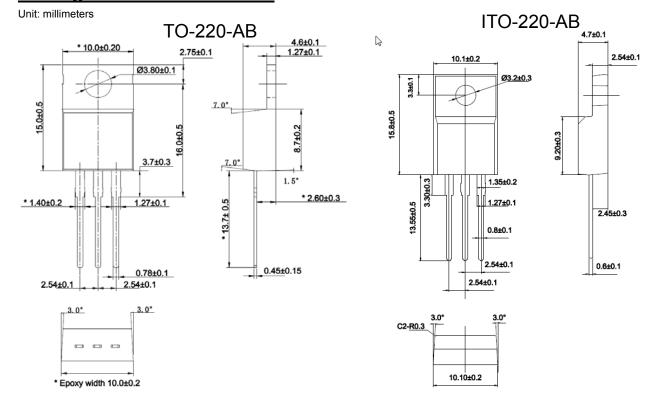


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Reverse Voltage 400 Volts Forward Current 10 Amperes

Package Outline Dimensions





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