

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

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		SY	MBOL	MUR1040(F)CT	UNIT
		CON	DITIONS				
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	А
Tc=105°C total device per diode						5	
Peak forward surge current 8.3ms single half sine-wave superimposed			IFS		100		А
on rated load per diode					100		
Voltage rate of change (rated V _R)				D∨/dt		10000	V/us
Operating junction temperature range				TJ		—55 to+150	°C
Storage temperature range			Тѕт			—55 to+150	°C
Maximum Reverse Recover Time		- T		Trr		35	
(If=0.5Amp, IR=1.0Amp,Irec=0.25Amp)		Trr					ns
Maximum instantaneous forward voltage per leg		I⊧=5A	Tc =25 ℃	VF		1.30	v
		I⊧=5A	Tc =125 ℃			1.20	
Maximum reverse current per leg at working peak			T 」=25 ℃			10	uA
Reverse voltage			TJ=100°C	lr		500	uA
	Thermal Characteristics TA:	_ =25℃ un	less otherwi	ise no	ted	1	1
Symbol	Parameter	TYP (T	0-220-AB)		TYP (ITO-220-AB)		Unit
RθJC	Thermal Resistance, Junction to Case per Leg	2.0			4.0		
RθJA	Thermal Resistance, Junction to Ambient per Leg	62.5		62.5		°C /W	

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



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





Package: ITO-220-AB

Package: TO-220-AB





MUR1040(F)CT

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

Ratings and Characteristics Curves

(T_A = 25° C unless otherwise noted)



2

1

4 6 10

通过电流的周期 Number of Cycles at 60 Hz.

20

40

100

50

25

0



MUR1040(F)CT

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

Package Outline Dimensions

Unit: millimeters





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