

MUR1040CT/MUR1040FCT

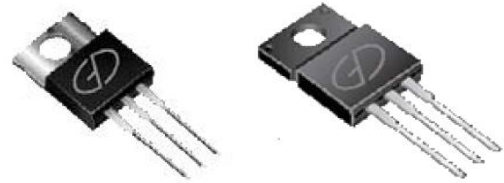
Super Fast Recovery Planar Rectifier
Reverse Voltage 400V Forward Current 10A

Features

- FRED (Planar) wafer construction
- Low forward voltage drop, low power losses
- High efficiency operation
- Plastic package has underwriters Laboratory
Flammability Classification 94V-0

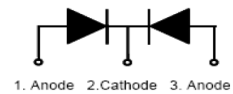
Mechanical Data

- Case: Epoxy, Molded
- Weight: 1.9grams(approximately)
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 50 units per plastic tube



MUR1040CT
Package: TO-220-AB

MUR1040FCT
Package: ITO-220-AB



Maximum Ratings (T_A = 25°C unless otherwise noted)

PARAMETER		TEST CONDITIONS		SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage				V _{RRM}	400	V
Working Peak Reverse Voltage				V _{RWM}	400	V
Maximum DC Blocking Voltage				V _{DC}	400	V
Maximum Average Forward Rectified Current at T _c =105°C total device per diode				I _{F(AV)}	10 5	A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load per diode)				I _{FSM}	125	A
Voltage Rate of Change(rated V _R)				Dv/dt	10000	V/us
Operating Junction Temperature Range				T _J	- 55 to+150	°C
Storage Temperature Range				T _{STG}	- 55 to+150	°C
Maximum Reverse Recover Time (I _F =0.5Amp, I _R =1.0Amp,I _{rec} =0.25Amp)				T _{rr}	35	ns
Maximum Instantaneous Forward Voltage per Leg		I _F =10A I _F =10A	T _C =25°C T _C =125°C	V _F	1.40 1.30	V
Maximum Reverse Current per Leg at working peak reverse voltage		T _J =25°C T _J =100°C		I _R	10 500	uA uA
Thermal Characteristics T _A =25°C unless otherwise noted						
Symbol	Parameter	TYP.(TO-220-AB)		TYP.(ITO-220-AB)		Unit
R _{θJC}	Thermal Resistance, Junction to Case per Leg	2.0		4.0		°C /W
R _{θJA}	Thermal Resistance, Junction to Ambient per Leg	62.5		62.5		°C /W

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

Ratings and Characteristics Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

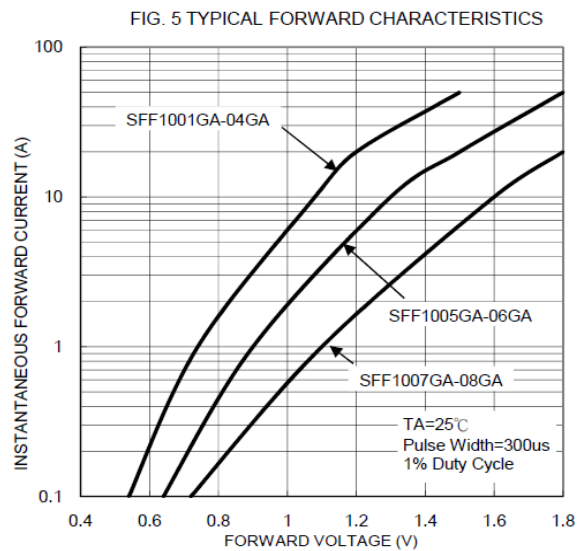
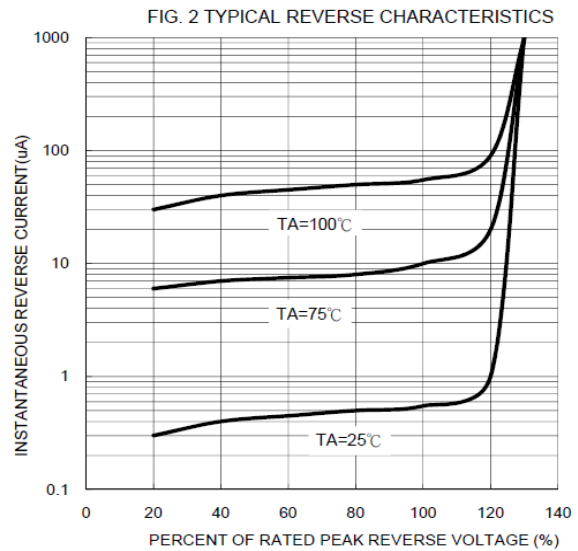
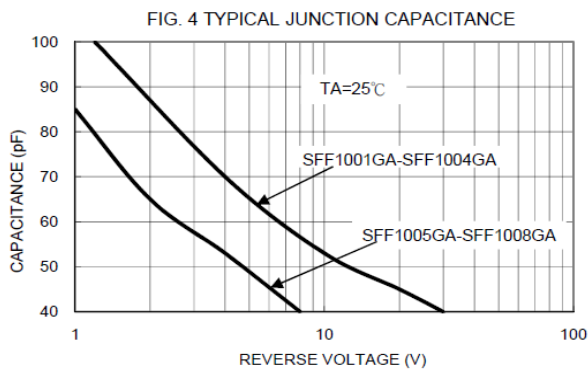
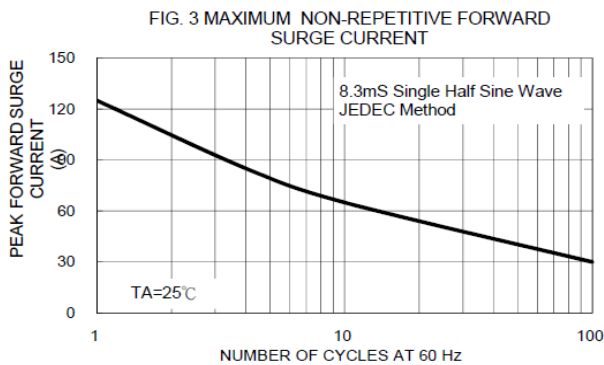
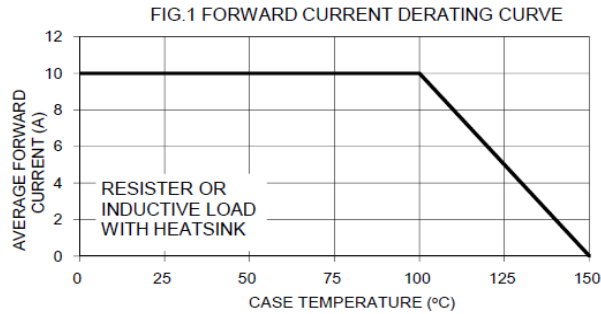
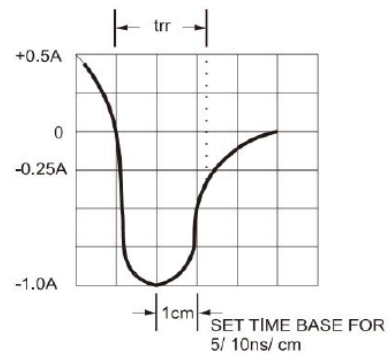
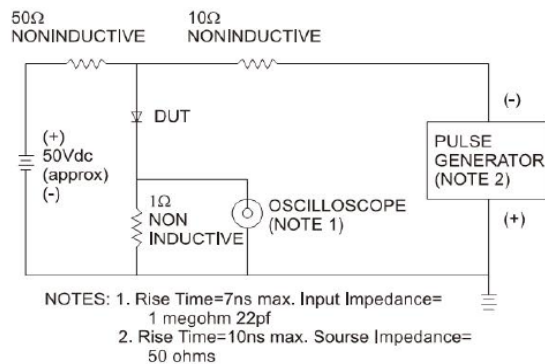


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



Package Outline Dimensions

Unit: millimeters

TO-220-AB

ITO-220-AB

