



MUR2060CT/MUR2060FCT

Ultrafast Recovery Rectifier
Reverse Voltage 600 Volts Forward Current 20 Amperes

Features

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



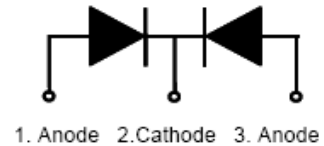
MUR2060CT
Package: TO-220-AB



MUR2060FCT
Package: ITO-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
- 50 units per plastic tube



Maximum Ratings & Electrical Characteristics

(T_A=25°C unless otherwise noted)

PARAMETER		TEST CONDITIONS		SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage				V _{RRM}	600	V
Working Peak Reverse Voltage				V _{RWM}	600	V
Maximum DC Blocking Voltage				V _{DC}	600	V
Maximum Average Forward Cectified Current at T _c =105°C	Total Device Per Diode			I _F (AV)	20 10	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}	50	ns
Maximum Instantaneous Forward Voltage per Leg		I _F =10A I _F =10A	T _C =25°C T _C =125°C	V _F	1.60 1.50	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.(MUR2060CT)		TYP.(MUR2060FCT)		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)

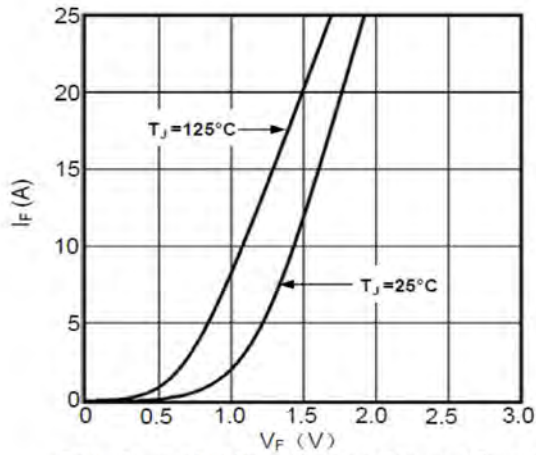


Fig1. Forward Voltage Drop vs Forward Current

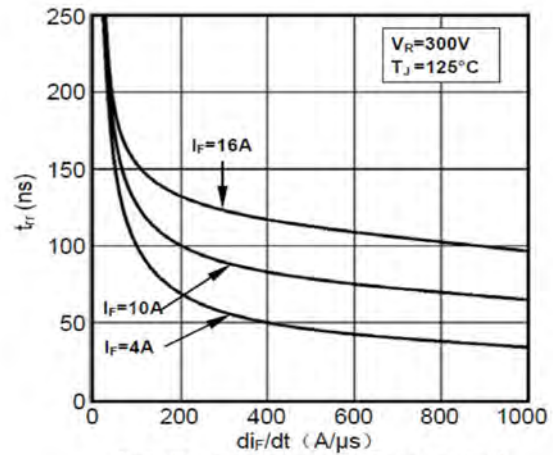


Fig2. Reverse Recovery Time vs di_F/dt

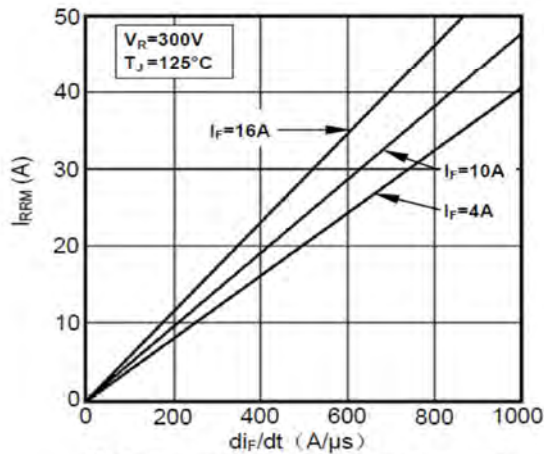


Fig3. Reverse Recovery Current vs di_F/dt

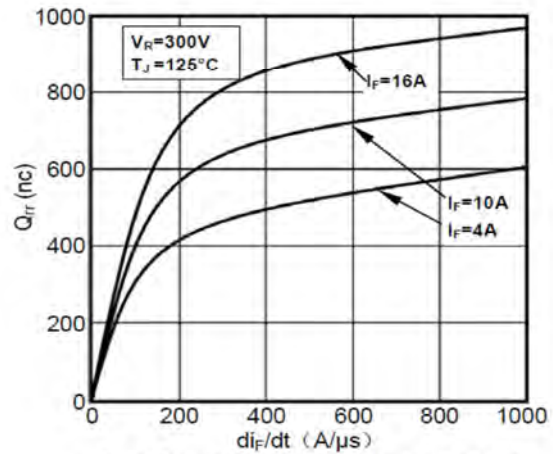


Fig4. Reverse Recovery Charge vs di_F/dt

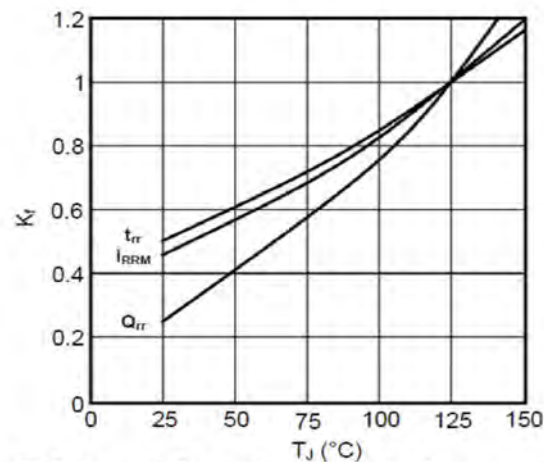


Fig5. Dynamic Parameters vs Junction Temperature

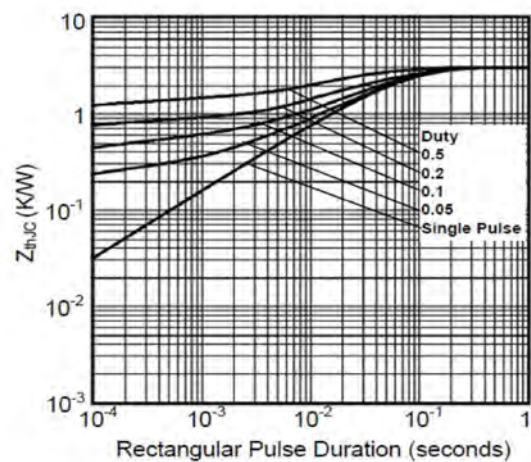


Fig6. Transient Thermal Impedance



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TO-220-AB

ITO-220--AB

