

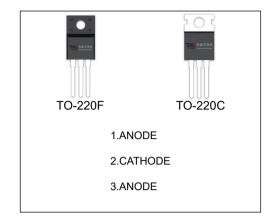
MUR1040CT MURF1040CT SUPER FAST

MAIN CHARACTERISTICS

Io	10A
V _{RRM}	400 V
Tj	150 ℃
V _{F(typ)}	1.1V (@Tj=125℃)

FEATURES

- Ultrafast 35ns Recovery Times
- High Voltage Capability to 400V
- Low Reverse Leakage Current



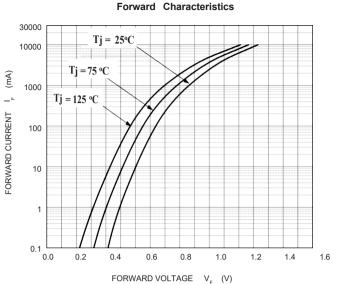
MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

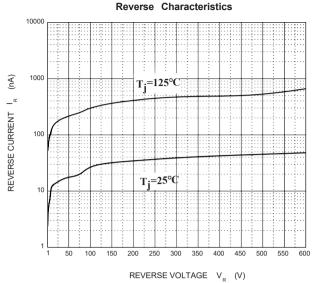
Symbol	Dovometor	MU	MUR	
Symbol	/mbol Parameter		F1040CT	Unit
V _{RRM}	Peak repetitive reverse voltage			
V _{RWM}	Working peak reverse voltage	40	400	
V _R	DC blocking voltage	1		
V _{R(RMS)}	RMS reverse voltage	28	280	
	Average rectified output current@ Per leg		5	
lo	Average rectified output current@ Total device	1	10	
	Non-Repetitive peak forward surge current	70		Α
I _{FSM}	8.3ms half sine wave			
P _D	Power dissipation	2		W
R _{OJA}	Thermal resistance from junction to ambient 62.5		°C/W	
T _j	Operating Junction Temperature Range -55 ~ +150		+150	°C
T _{stg}	Storage Temperature Range	re Range -55 ~ +150		℃

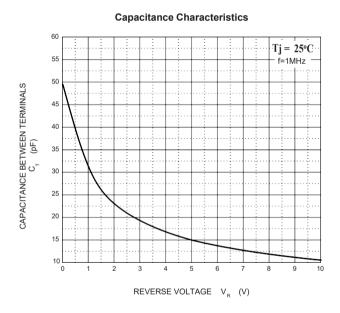
ELECTRICAL CHARACTERISTICS (T_a=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions		Min	Тур	Max	Unit
Reverse voltage	V _(BR)	I _R =100uA		400			V
Reverse current	I _R	V _R =400V	Tj =25℃		0.2	1	uA
			Tj =125℃		1.0		uA
Forward voltage	V _F	I _F =5.0A	Tj =25℃		1.25	1.4	V
			Tj =125℃		1.1		V
Typical total capacitance	C _{tot}	V _R =4.0V,f=1MHz			16		pF
Reverse recovery time	t _{rr}	I _F = 0.5A, I _R =1A,I _{rr} =0.25A				35	ns









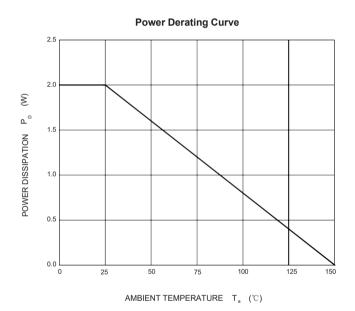


Diagram of circuit and Testing wave form of reverse recovery time

