

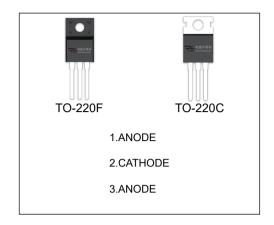
MUR1640CT , MURF1640CT SUPER FAST

MAIN CHARACTERISTICS

Io	16A
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



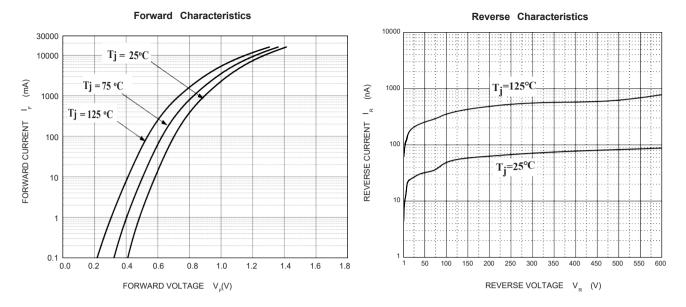
MAXIMUM RATINGS (T_a =25°C unless otherwise noted)

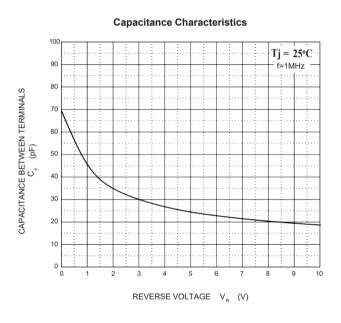
Symbol	Parameter	MU	MUR	
Symbol	iboi Parameter		F1640CT	Unit
V_{RRM}	Peak repetitive reverse voltage			V
V _{RWM}	Working peak reverse voltage 400		00	
V _R	DC blocking voltage			
V _{R(RMS)}	RMS reverse voltage	2	280	
	Average rectified output current@ Per leg 8		8	Α
Io	Average rectified output current@ Total device	1	16	
	Non-Repetitive peak forward surge current		120	
I _{FSM}	8.3ms half sine wave	''	120	
P _D	Power dissipation	2	2.0	
R _{OJA}	Thermal resistance from junction to ambient	62	62.5	
T _j	Operating Junction Temperature Range	-55 ~	-55 ~ +150	
T _{stg}	Storage Temperature Range		+150	℃

ELECTRICAL CHARACTERISTICS (T_a=25°C 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℃		0.1	1	uA
			Tj =125℃		1.0		uA
Forward voltage	V _F	I _F =8.0A	Tj =25℃		1.22	1.4	V
			Tj =125℃		1.10		V
Typical total capacitance	C _{tot}	V _R =4.0V,f=1MHz			28		pF
Reverse recovery time	t _{rr}	I _F = 0.5A, I _R =1A,I _{rr} =0.25A				35	ns







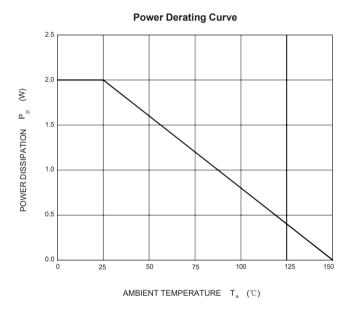


Diagram of circuit and Testing wave form of reverse recovery time

