Ultra Fast Rectifier





Features:

- · High surge capacity
- · Low power loss, high efficiency
- · Glass passivated chip junctions
- 150°C operation junction temperature
- Low stored charge majority carrier conduction
- · Low forward voltage, high current capability
- High-switching speed 35 nanosecond recovery time
- · Plastic material used carries underwriters laboratory

Maximum Ratings:

Characteristic	Symbol	MURF1660C	Units
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	600	٧
RMS Reverse Voltage	VR(RMS)	420	
Average Rectifier Forward Current Total Device (Rated VR), Tc = 55°C	lr(AV)	8 16	
Peak Repetitive Forward Current (Rate VR, Square Wave, 20kHz, Tc = 125°C)	Іғм	16	А
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-ware, single phase 60HZ)	IFSM	125	
Operating and Storage Junction Temperature Range	TJ, Tstg	-65 to +150	°C

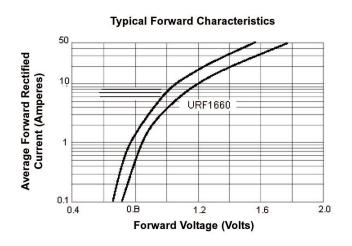
Electrical Characteristics:

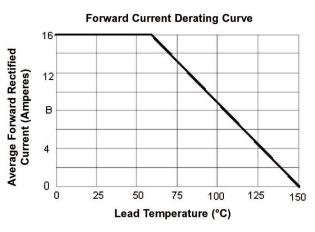
Characteristic	Symbol	MURF1660C	Units
Maximum Instantaneous Forward Voltage (IF = 8 Amperes Tc = 25°C) (IF = 8 Amperes Tc = 125°C)	VF	1.5 1.34	V
Maximum Instantaneous Reverse Current (Rated DC Voltage, Tc = 25°C) (Rated DC Voltage, Tc = 125°C)	lR	10 200	μΑ
Reverse Recovery Time (IF = 0.5A, IR = 1, IRR = 0.25A)	Trr	50	ns
Typical Junction Capacitance (Reverse Voltage of 4 Volts and f = 1MHz	СР	70	pF

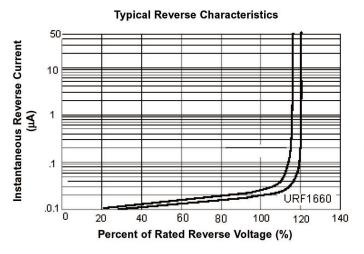


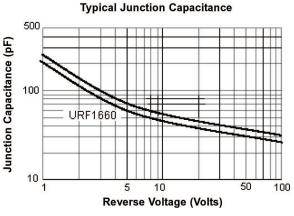
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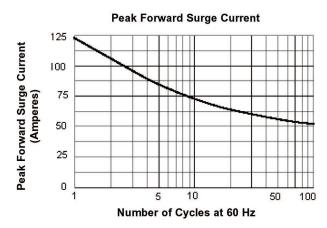








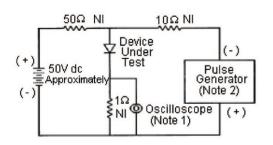


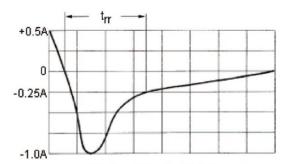




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Set time base for 10/20 ns/cm

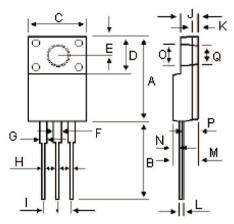
Reverse Recovery Time Characteristic and Test Circuit Diagram

Notes:

- 1. Rise Time = 7ns max. input Impedance = $1M\Omega$, 22pF
- 2. Rise Time = 10ns max. input Impedance = 50Ω

16 Amperes 200 Volts

ITO-220AB



DIM	MILLIMETERS	
DIIVI	MIN	MAX
Α	15.05	15.15
В	13.35	13.45
C	10.00	10.10
D	6.55	6.65
E	2.65	2.75
F	1.55	1.65
G	1.15	1.25
Н	0.55	0.65
1	2.50	2.60
J	3.00	3.20
K	1.10	1.20
L	0.55	0.65
M	4.40	4.60
N	1.15	1.25
P	2.65	2.75
0	3.35	3.45
Q	3.15	3.25

Dimensions : Millimetres



Common Cathode

Part Number Table

Description	Part Number
Diode, Dual REC, 16A, 600V, TO-220AB	MURF1660CT

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