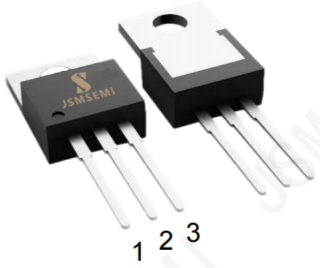
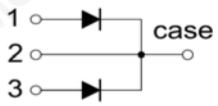
Features

- Ultrafast 35ns Recovery Times
- High Voltage Capability to 600V
- Low Reverse Leakage Current



TO-220-3



Maximum Ratings (Ta=25℃unless otherwise noted)

Symbol	Parameter	MUR	Unit
V_{RRM}	Peak repetitive reverse voltage	400	V
V_{RWM}	Working peak reverse voltage		
V_R	DC blocking voltage		
$V_{R(RMS)}$	RMS reverse voltage	280	V
I_O	Average rectified output current@ Per leg	8	A
	Average rectified output current@ Total device	16	A
I_{FSM}	Non-Repetitive peak forward surge current 8.3 ms half sine wave	120	A
P_D	Power dissipation	2.0	W
$R_{\Theta JA}$	Thermal resistance from junction to ambient	62.5	℃/W
T_j	Operating Junction Temperature Range	-55 ~ +150	℃
T_{stg}	Storage Temperature Range	-55 ~ +150	℃

Electrical Characteristics (Ta=25℃unless otherwise specified)

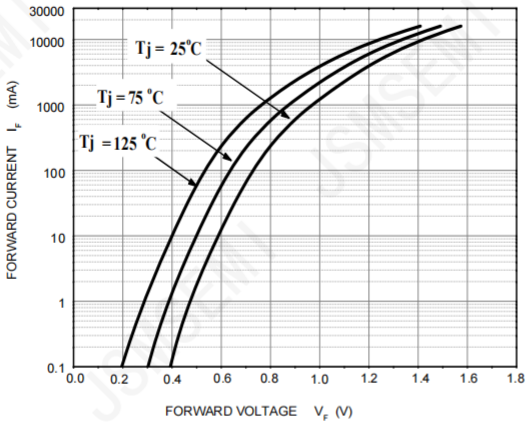
Parameter	Symbol	Test conditions		Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100uA		400			V
Reverse current	I_R	V_R=600V	Tj =25℃		0.1	1	uA
			Tj =125℃		1.0		uA
Forward voltage	V_F	IF=8.0A	Tj =25℃		1.22	1.4	V
			Tj =125℃		1.10		V
Typical total capacitance	C_{tot}	V_R=4.0V,f=1MHz			28		pF
Reverse recovery time	t_{rr}	I_F= 0.5A, I_R=1A,I_{rr}=0.25A				35	ns

Ordering Information

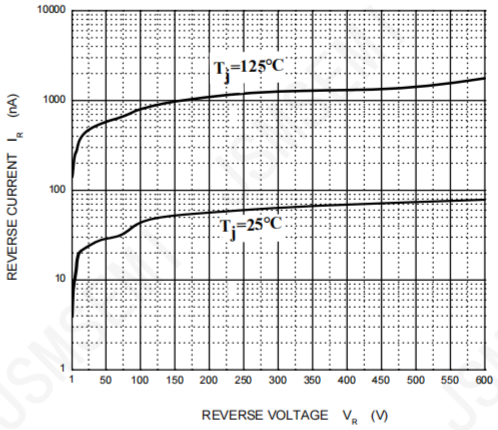
Order number	Package	Marking	Operation Temperature Range	MSL Grade	Ship, Quantity	Green
MUR1640CTG-JSM	TO-220-3	MUR1640CT	-55 to 150°C	3	TUBE,1000	Rohs

Typical Characteristics

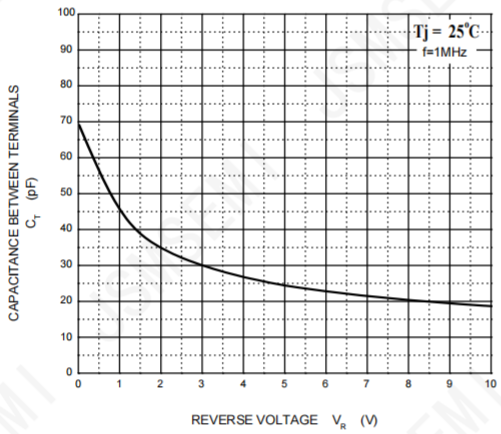
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

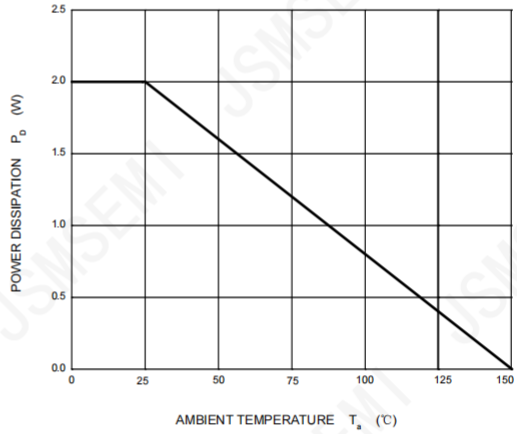
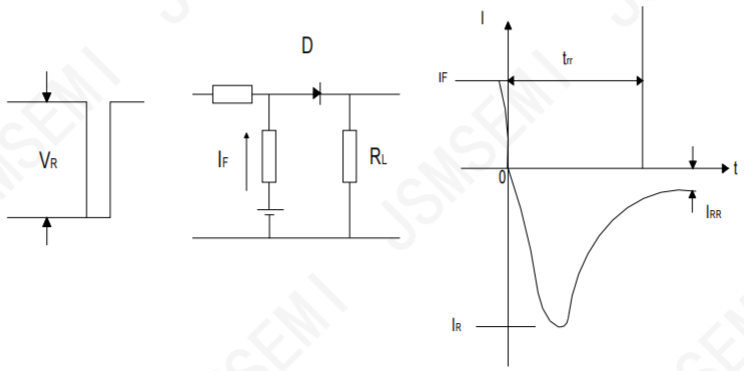
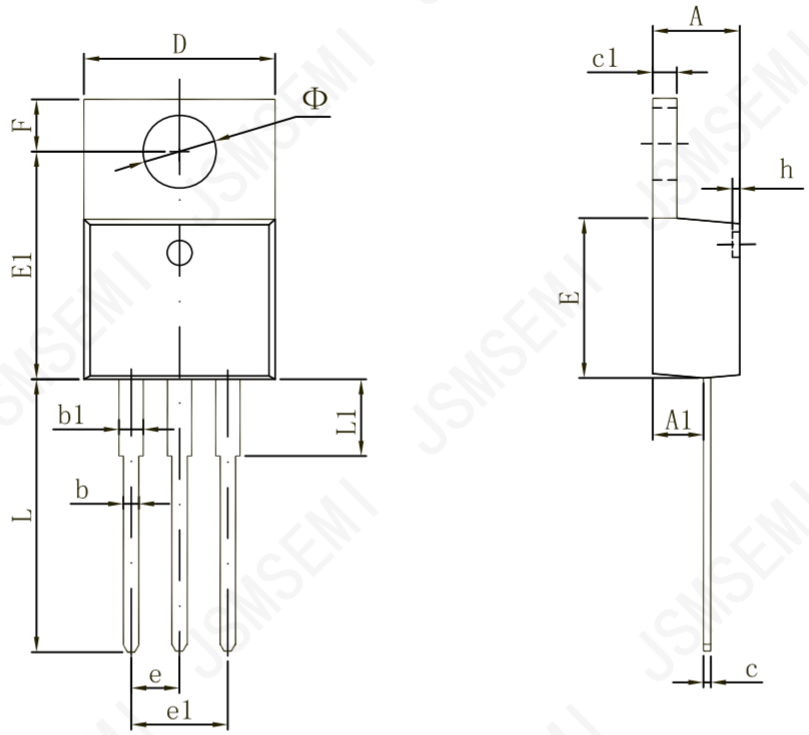


Diagram of circuit and Testing wave form of reverse recovery time



Package Outline Dimensions

TO-220-3



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.450	4.750	0.175	0.187
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.300	0.500	0.012	0.020
c1	1.170	1.370	0.046	0.054
D	9.830	10.330	0.387	0.407
E	8.500	8.900	0.335	0.350
E1	12.050	12.650	0.474	0.498
e	2.540 TYP		0.100 TYP	
e1	4.900	5.200	0.192	0.205
F	2.540	2.940	0.100	0.116
h	0.100 TYP		0.004 TYP	
L	13.300	13.800	0.523	0.543
L1	3.540	3.940	0.139	0.155
Φ	3.735	3.935	0.147	0.155

Revision History

Rev.	Change	Date
V1.0	Initial version	3/27/2022

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