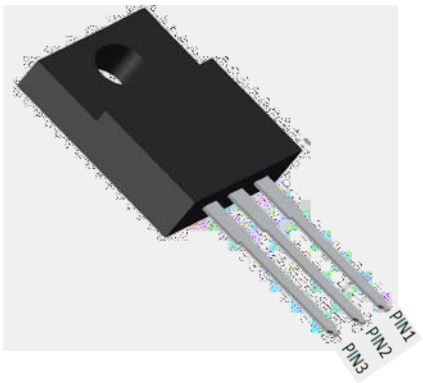
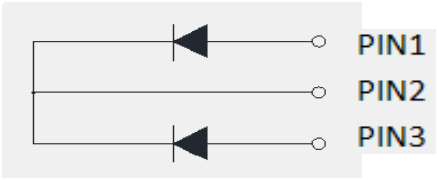




- Adopt FRED chip
- Low forward Voltage drop
- Fast reverse recovery time
- High frequency operation
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Guard ring for enhanced ruggedness and long term reliability

Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.

- : ITO-220AB
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- : As marked

■ (Tj=25 Unless otherwise specified

Device marking code			MUR2040FCT
Repetitive Peak Reverse Voltage	V_{RRM}	V	400
Average Rectified Output Current @60Hz sine wave, R-load, T_C(FIG.1)	I_O	A	20
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, T_j=25	I_{FSM}	A	120
Current Squared Time @1ms≤t≤8.3ms Tj=25	I^2t	A^2s	60
Storage Temperature	Tstg		-55 ~ +175
Junction / @recommended torque	Tor	kg cm	8

■

Instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=10.0A @Tj=25		-	1.15	1.30
			I_{FM}=10.0A @Tj=150			0.9	1.0
DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	uA	V_{RM}=V_{RRM} Tj=25		-	-	5
	I_{RRM2}		V_{RM}=V_{RRM} Tj=150		-	40	100
Reverse Recovery Time	Trr	ns	I_F=0.5A I_{RM}=1A I_{RR}=0.25A Tj=25		-	25	35
			Tj=25	I_F=10A di/dt=-200A/us V_{RM}=200V	-	33.5	-
			Tj=125		-	54.8	-
Peak recovery current	I_{RRM}	A	Tj=25		-	4.1	-
			Tj=125		-	8.1	-
Reverse recovery charge	Qrr	nC	Tj=25		-	68.3	-
			Tj=125		-	226.7	-

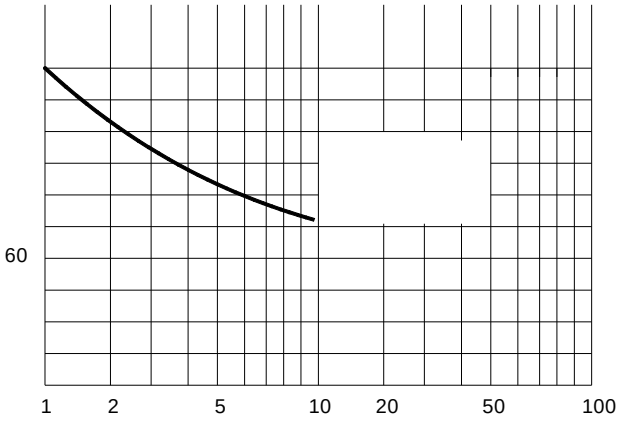
■ Tj=25 Unless otherwise specified

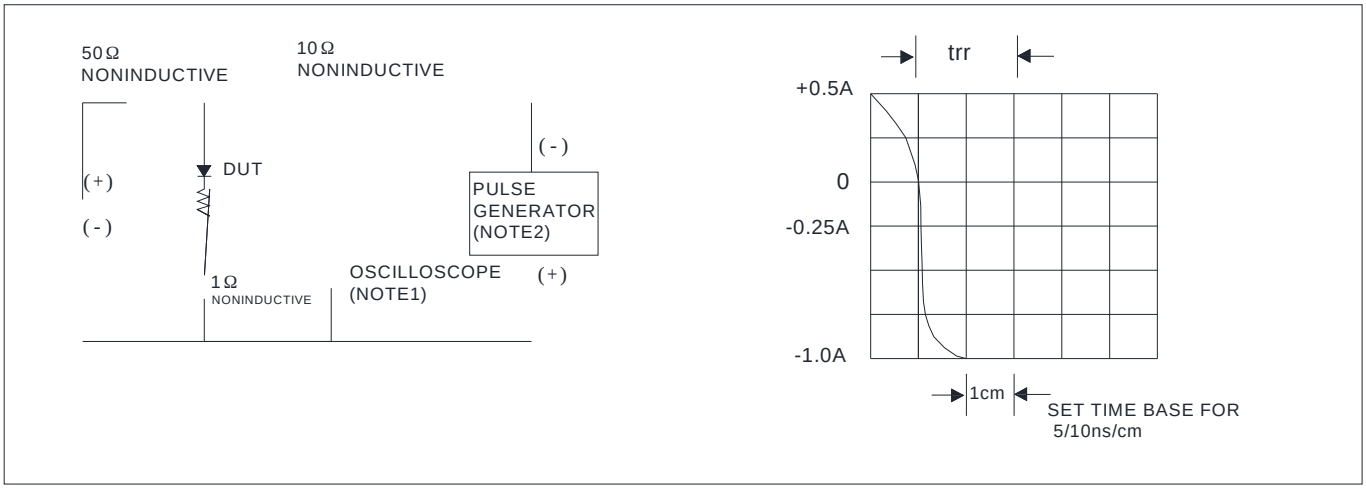
Thermal Resistance	Between junction and case	$R_{\theta J-C}$	/W	5.0
Thermal Resistance	Between junction and Air	$R_{\theta J-A}$	/W	50

■ (Example)

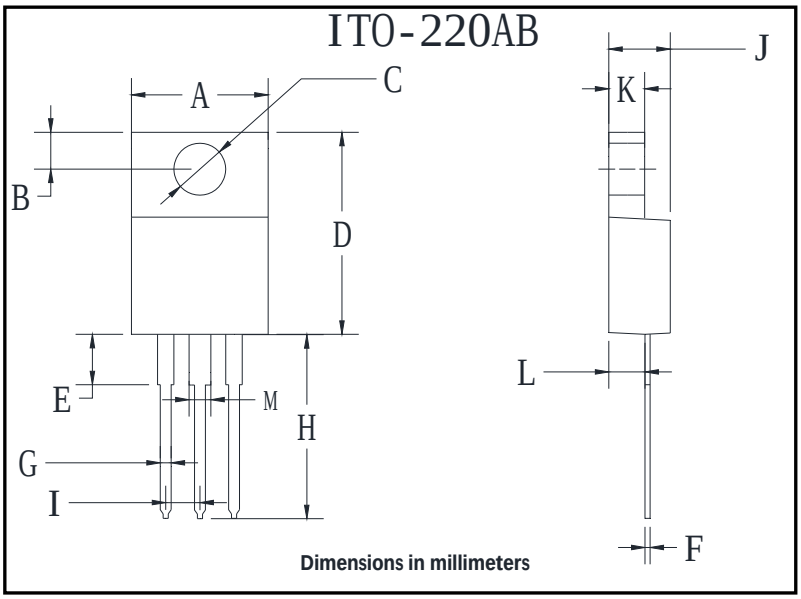
MUR2040FCT	Approximate 1.6	50	1000	5000	Tube

■ (Typical)




50Ω
NONINDUCTIVE
10Ω
NONINDUCTIVE
(+)
(-)
DUT
(-)
PULSE
GENERATOR
(NOTE2)
1Ω
NONINDUCTIVE
OSCILLOSCOPE
(NOTE1)
(+)
trr
+0.5A
0
-0.25A
-1.0A
1cm
SET TIME BASE FOR
5/10ns/cm

■



Dim	Min	Max
A	9.8	10.2
B	2.25	2.75
C	2.95	3.45
D	14.75	15.25
E	3.05	3.95
F	0.45	0.75
G	0.45	0.75
H	13.4	14.2
I	2.35	2.75
J	4.3	4.8
K	2.58	2.82
L	2.58	2.82
M	1.47	1.77

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