

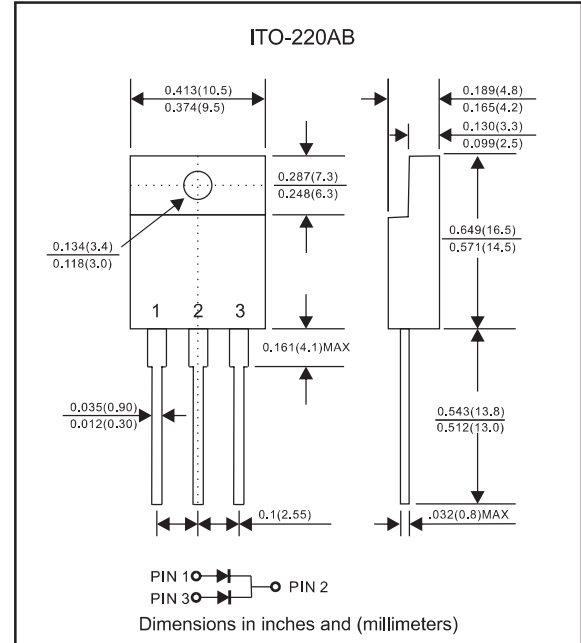
Features

- Dual rectifier construction, positive centetap, offer 8.0A Half wave and 16.0A full wave rectification.
- High surge current capability.
- Super fast recovery time for switching mode application.
- Low power loss.
- Glass passivated chip junctions.
- Lead-free parts meet environmental standards of MIL-STD-19500/228

Mechanical data

- Epoxy : UL94-V0 rated flame retardant
- Case : JEDEC ITO-220AB molded plastic body over passivated chip
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity: As marked
- Mounting Position : Any

Package outline



Maximum ratings (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOLS	MUR1620FCT	MUR1640FCT	MUR1660FCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC blocking voltage	V_{DC}	200	400	600	V
Maximum average forward rectified current	I_o	16			A
Peak forward surge current 8.3ms single half sine-wave(JEDEC method)	I_{FSM}	100			A
Operating junction temperature range	T_J	-55 to +150			$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150			$^{\circ}\text{C}$

Electrical Characteristics (AT $T_A=25^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOLS	MUR1620FCT	MUR1640FCT	MUR1660FCT	UNIT
Maximum forward voltage per leg at $I_F=8\text{A}$	V_F	0.99	1.30	1.80	V
Maximum reverse recovery time per leg (Note 1)	t_{rr}	50			ns
Maximum DC reverse current at $T_J=25^{\circ}\text{C}$ at rated DC blocking voltage per leg at $T_J=125^{\circ}\text{C}$	I_R	10 500			μA μA

Thermal Characteristics

PARAMETER	SYMBOLS	MUR1620FCT	MUR1640FCT	MUR1660FCT	UNIT
Typical thermal resistance junction to case per leg	$R_{\theta JC}$	2.5			$^{\circ}\text{C}/\text{W}$

Note 1: Reverse recovery time test condition, $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25\text{A}$

Rating and characteristic curves

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

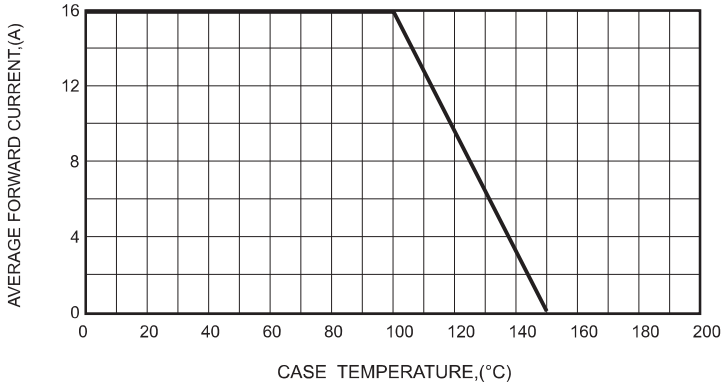


FIG.2-TYPICAL FORWARD CHARACTERISTICS

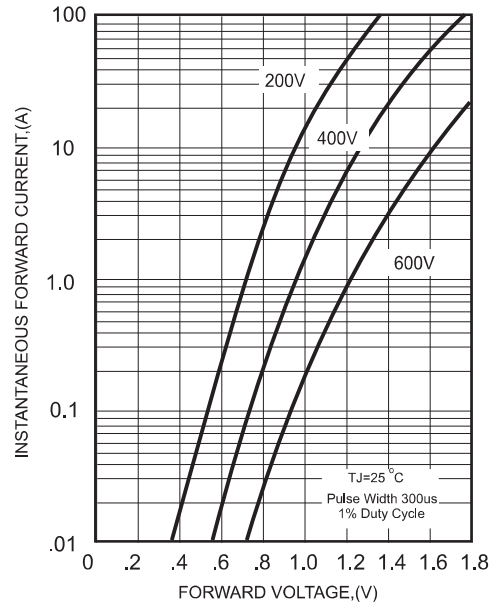


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

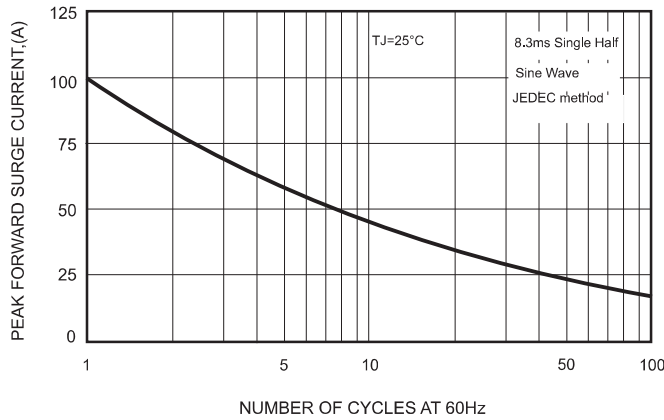


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

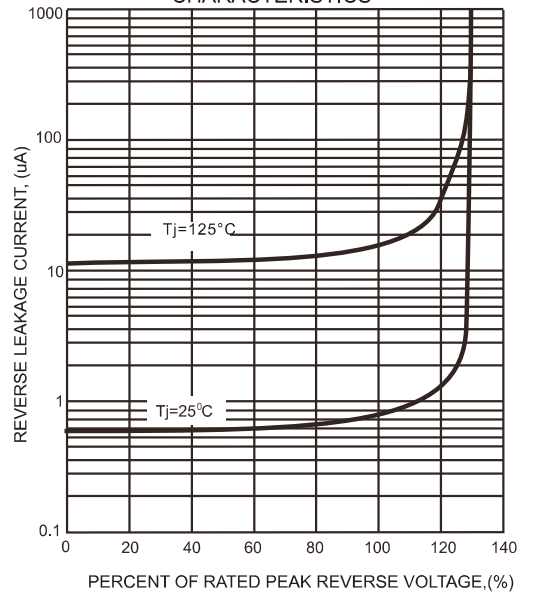
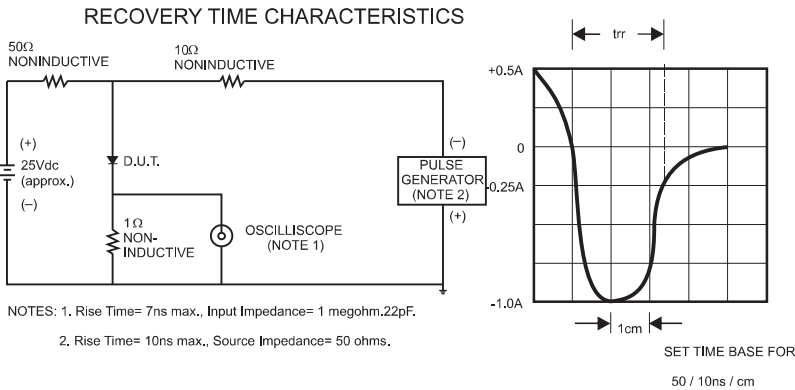
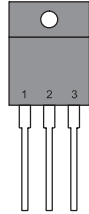
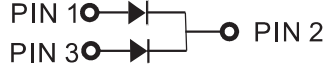


FIG.5- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTICS



NOTES: 1. Rise Time= 7ns max., Input Impedance= 1 megohm,22pF.
2. Rise Time= 10ns max., Source Impedance= 50 ohms.

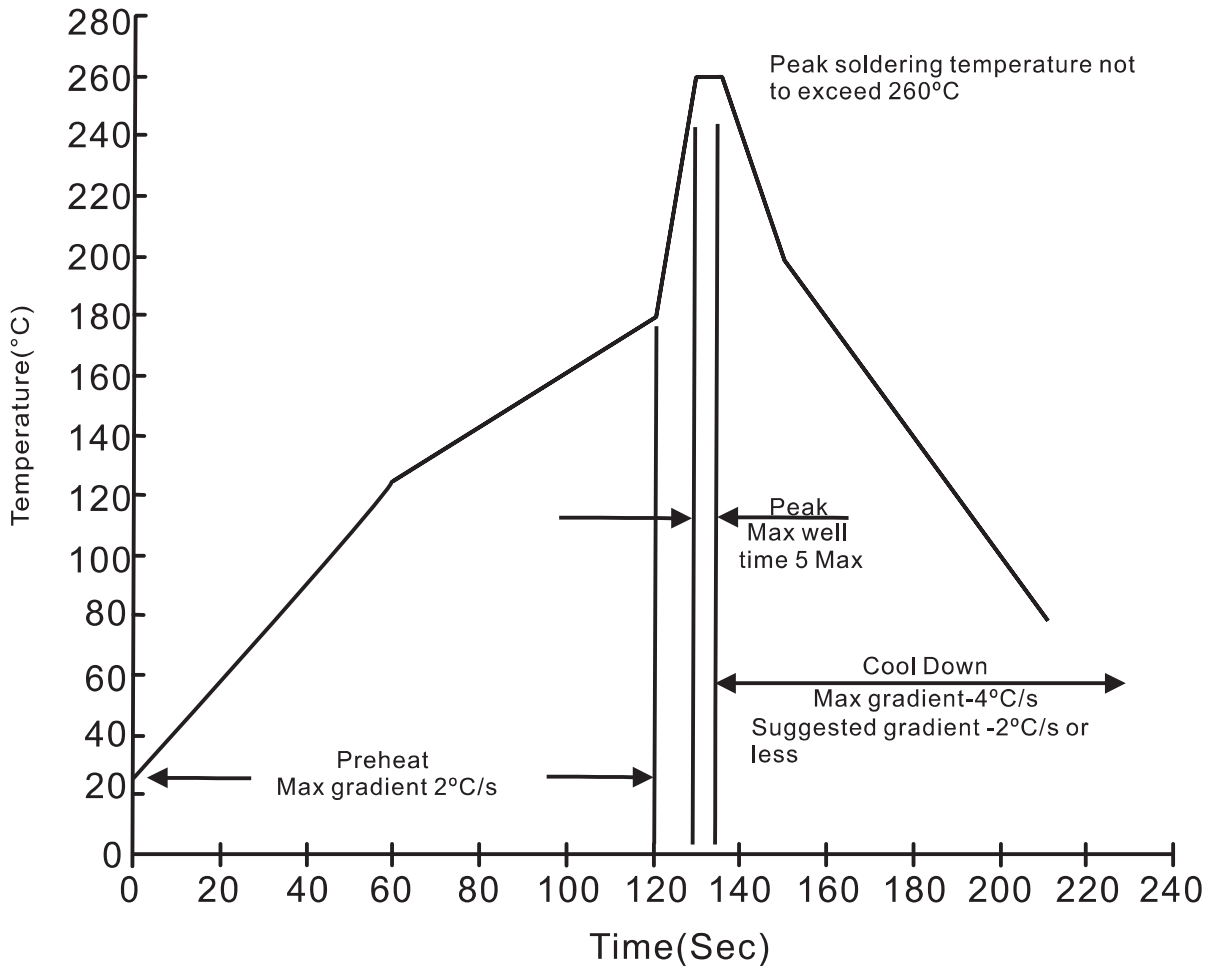
Pinning information

Pin	Simplified outline	Symbol
Pin1 anode Pin2 cathode Pin3 anode		

Marking

Type number	Marking code
MUR1620FCT	MUR1620FCT
MUR1640FCT	MUR1640FCT
MUR1660FCT	MUR1660FCT

Suggested thermal profiles for soldering processes



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