MUR605CT~MUR660CT

SUPERFAST RECOVERY RECTIFIER

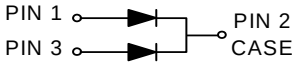
VOLTAGE	50 to 600 Volt	CURRENT	6.0 Ampere

FEATURES

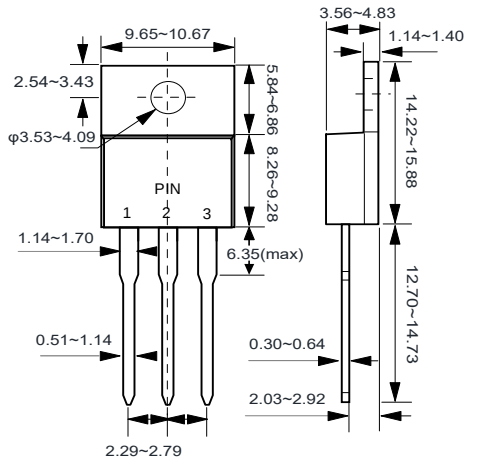
- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Low leakage.
- High surge capability.
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



TO-220AB Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	MUR605CT	MUR610CT	MUR620CT	MUR640CT	MUR660CT	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Maximum Average Forward Current at See Fig 1	$I_{F(AV)}$	6					A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	60					A
Maximum Forward Voltage at 3 A (Note 1)	V_F	0.975			1.3	1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J=25°C T_J=100°C	I_R	5 50					μA
Maximum Reverse Recovery Time (Note 1)	t_{rr}	35			60	75	ns
Typical Junction Capacitance (Note 2)	C_J	60					pF
Typical thermal Resistance (Note 3)	$R_{\theta JC}$	3					°C / W
Operating Junction and Storage Temperature Range	T_J,T_{STG}	-55 to +150					°C

NOTES:

1. Pulse Test with PW=300μsec, 2% Duty Cycle.
2. Reverse Recovery Tset Conditions : I_F=0.5A,I_R=1A,Irr=0.25A
3. Mounted on P.C. Board with 14mm^2 (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

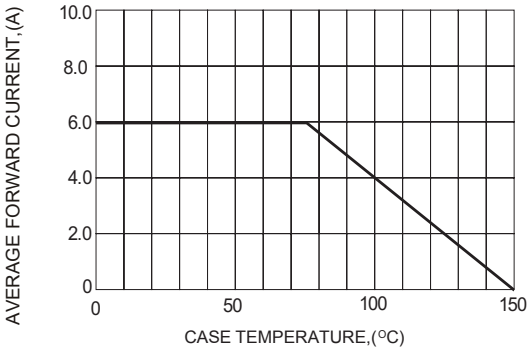


Fig. 1 Forward Current Derating Curve

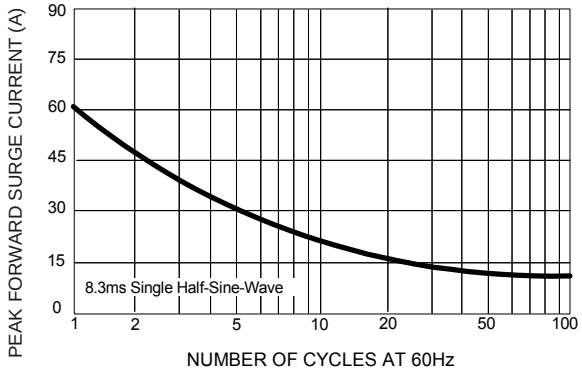


Fig. 2 Surge Current Derating Curve

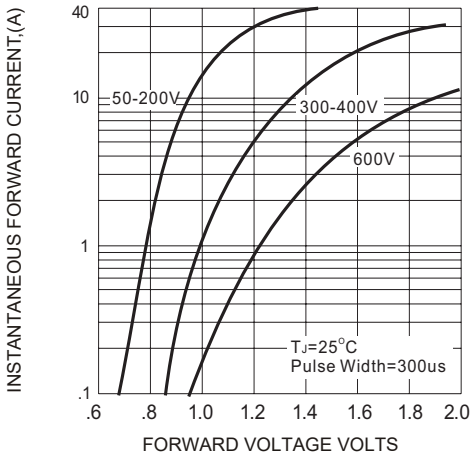


Fig. 3 Typical Forward Characteristics

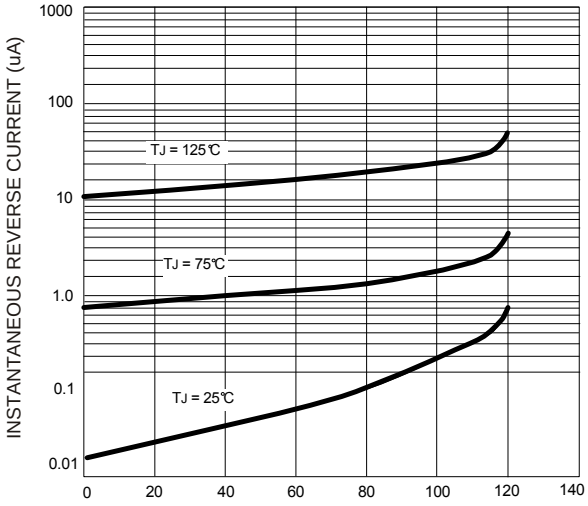
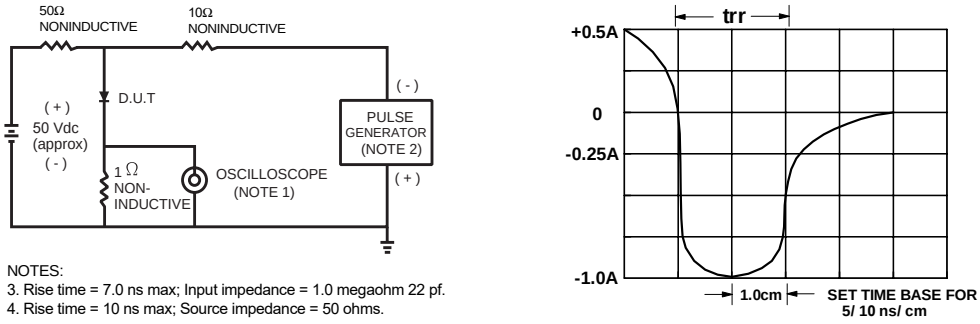


Fig. 4 Typical Reverse Characteristics



NOTES:
3. Rise time = 7.0 ns max; Input impedance = 1.0 megaohm 22 pf.
4. Rise time = 10 ns max; Source impedance = 50 ohms.

Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDER INFORMATION

- Packing information

Part Number	Case	DELIVERY MODE	QUANTITY
MUR605CT~MUR660CT	TO-220AB	Tube	1000/BOX