MUR1610CT THRU MUR1660CT

Reverse Voltage - 100 to 600 Volts Forward Current - 16.0 Ampere

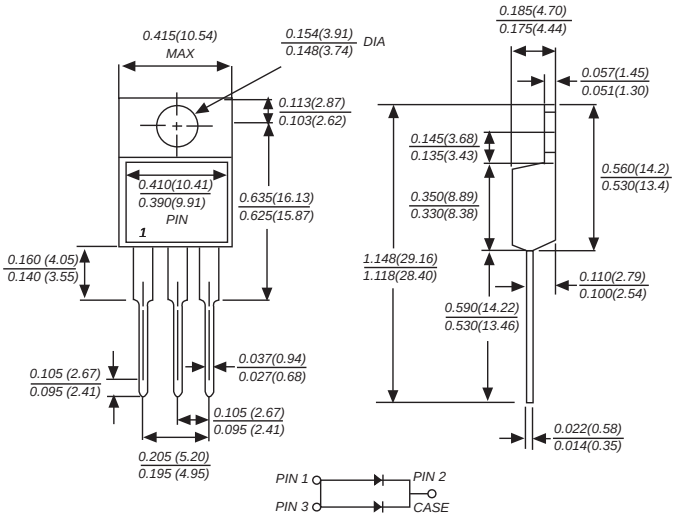
ULTRAFAST RECOVERY RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 250°C,0.25"(6.35mm) from case for 10 seconds

TO-220AB

RoHS COMPLIANT



Dimensions in inches and (millimeters)

Mechanical Data

Case : JEDEC TO-220AB Molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750,Method 2026 **Polarity** :As marked
Mounting Position : Any
Weight : 0.080 ounce, 2.24 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unlss otherwise specified.

Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	SYMBOLS	MDD MUR1610CT	MDD MUR1620CT	MDD MUR1630CT	MDD MUR1640CT	MDD MUR1650CT	MDD MUR1660CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	100	200	300	400	500	600	V
Maximum RMS voltage	V_{RMS}	70	140	210	280	350	420	V
Maximum DC blocking voltage	V_{DC}	100	200	300	400	500	600	V
Maximum average forward rectified current (see fig.1)	$I_{(AV)}$	16.0						A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I_{FSM}	90						A
Maximum instantaneous forward voltage at 8.0A	V_F	1.0		1.3		1.7		V
Maximum DC reverse current T_A=25℃	I_R	10						uA
at rated DC blocking voltage T_A=100℃		500						
Typical junction capacitance (NOTE 1)	C_J	170				130		pF
Typical thermal resistance (NOTE 2)	$R_{\theta JC}$	3.5						℃/W
Maximum Reverse Reccovery time (NOTE 3)	T_{rr}	35						nS
storage temperature range	$T_J T_{STG}$	-50 to +150						℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to case.

3..Reverse Rcovery Test Conditions: I_F=0.5A, I_R=1A, Irr=0.25A.

DN:T20526A0

Ratings And Characteristic Curves

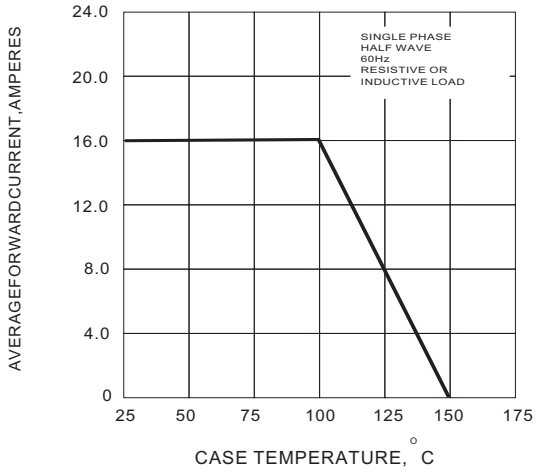


Fig.1 FORWARD CURRENT DERATING CURVE

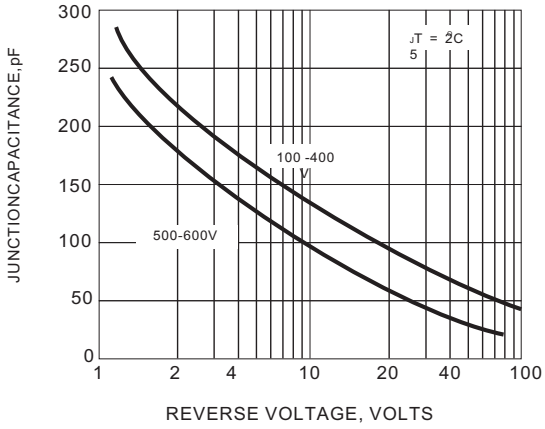


Fig.2 TYPICAL JUNCTION CAPACITANCES

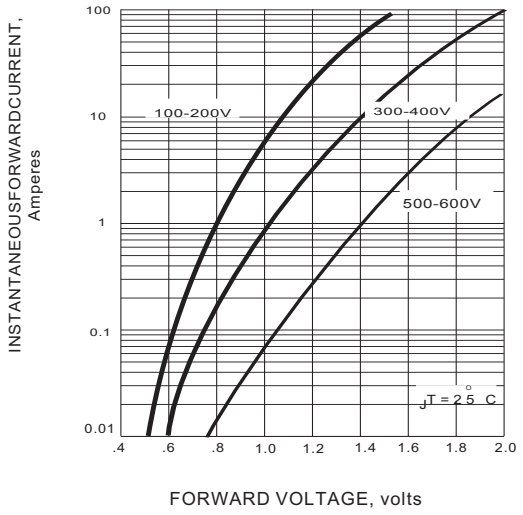


Fig.3 FORWARD CHARACTERISTICS

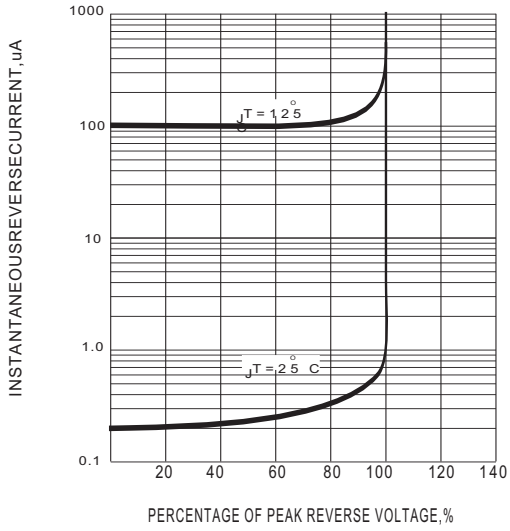


Fig.4 TYPICAL REVERSE CHARACTERISTICS

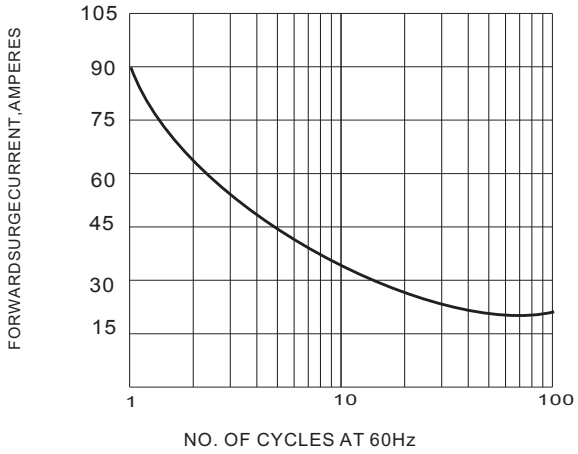


Fig.5 PEAK FORWARD SURGE CURRENT

The curve above is for reference only.