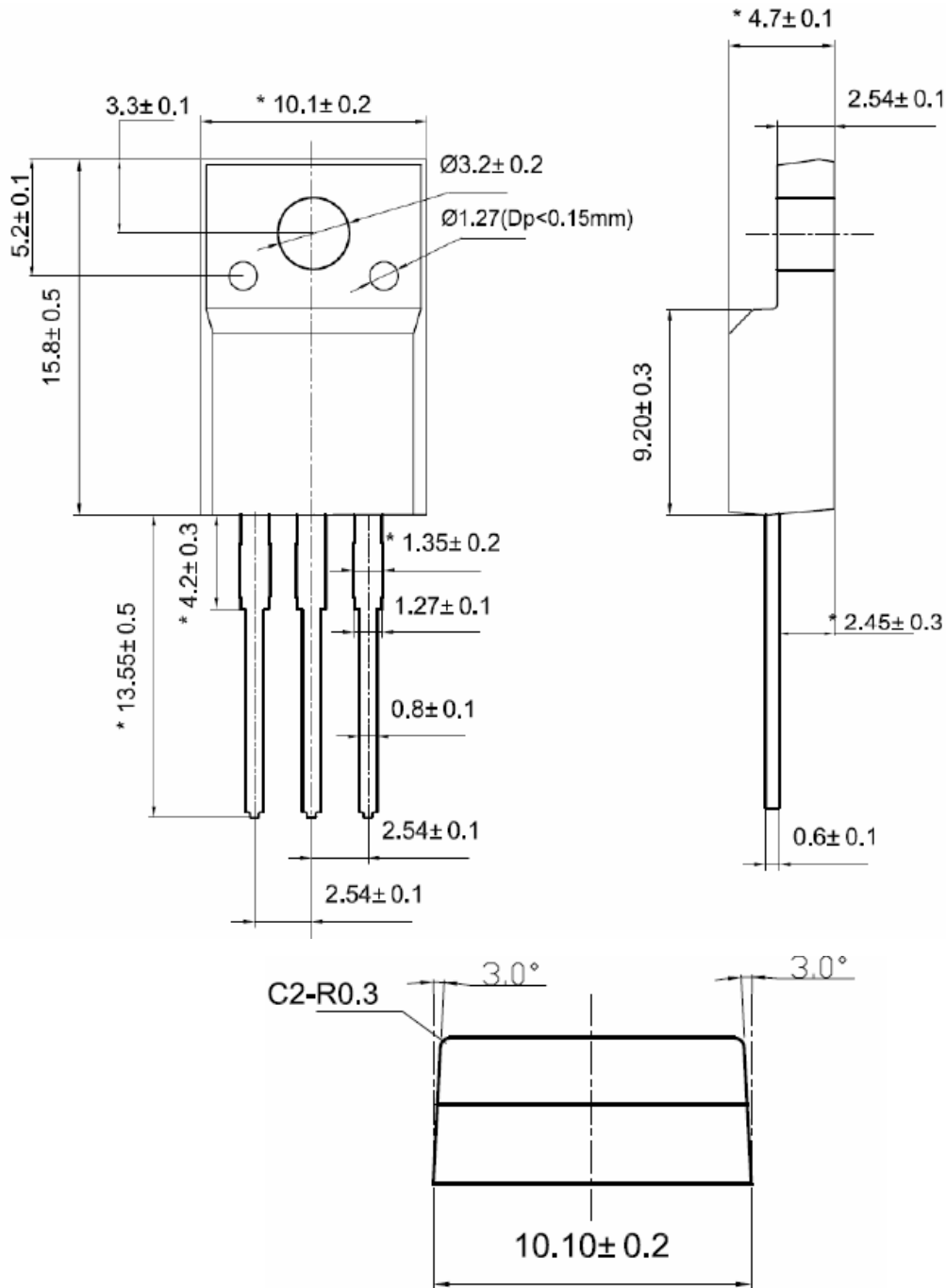




APPROVAL DRAWING

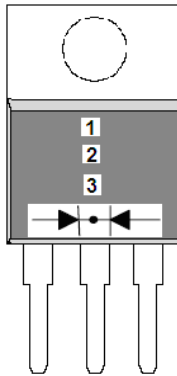
MEI's product name
MURF16xxCT series (RoHS compliant)

1.CASE DIMENSION(TO-220AB)





2. MARK (for example: MURF1620CT)



1. Logo Mark: GD
2. Part Name: MURF1620CT
3. Date code:

3. MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified, single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Parameter	Symbol	MURF 1605CT	MURF 1610CT	MURF 1620CT	MURF 1630CT	MURF 1640CT	MURF 1660CT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	300	400	600	Volts
Maximum RMS voltage	V_{RMS}	35	70	140	210	280	420	Volts
Maximum DC blocking voltage	V_{DC}	50	100	200	300	400	600	Volts
Maximum average forward rectified current at $T_c=90^\circ\text{C}$	$I_{F(AV)}$	16.0						Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	90.0						Amps
Maximum instantaneous forward voltage at 8.0A	V_F	0.975			1.3		1.5	Volts
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^\circ\text{C}$	10.0						uA
	$T_j=125^\circ\text{C}$	500						
Maximum reverse recovery time at $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{RR}=0.25$	T_{RR}	35			50			nS
Typical junction capacitance at 4.0V, 1MHz	C_J	62						pF
Typical thermal resistance(Note1)	R_{THJC}	3.0						$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J , T_{STG}	-55 to +150						$^\circ\text{C}$

Note: 1. Thermal resistance from Junction to Case



4. RATINGS AND CHARACTERISTIC CURVES

Figure 1
Typical Forward Characteristics

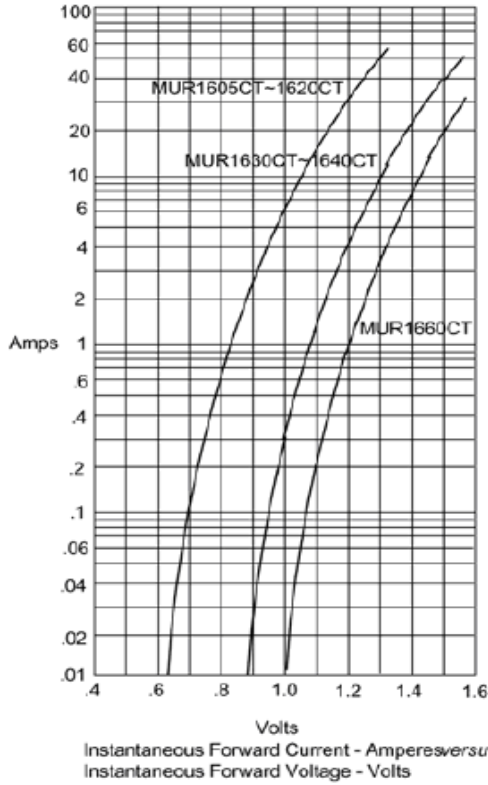


Figure 2
Typical Reverse Characteristics

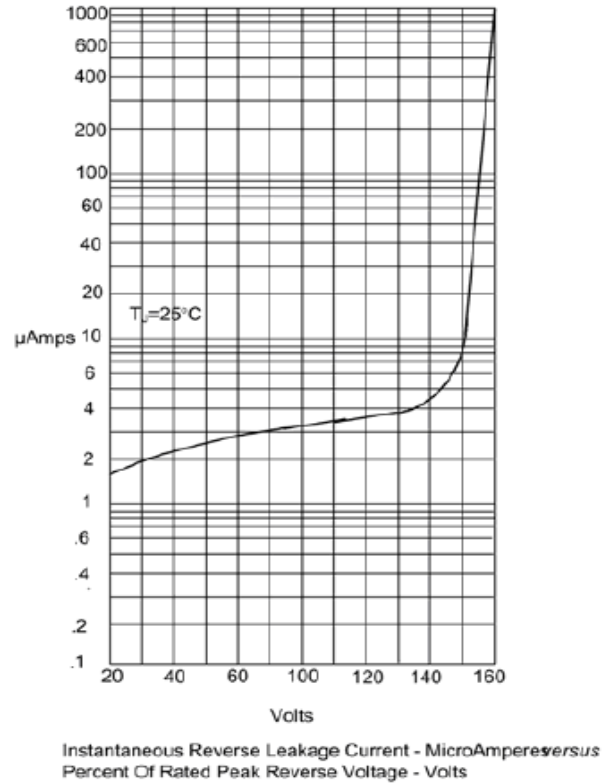


Figure 3
Forward Derating Curve

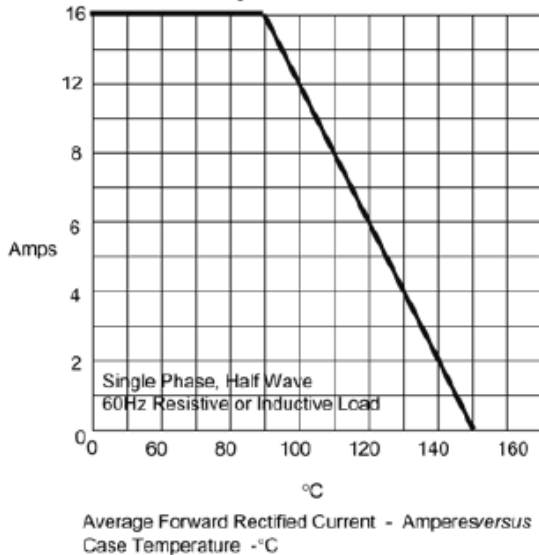


Figure 4
Maximum Non-Repitative Forward Surge Current

