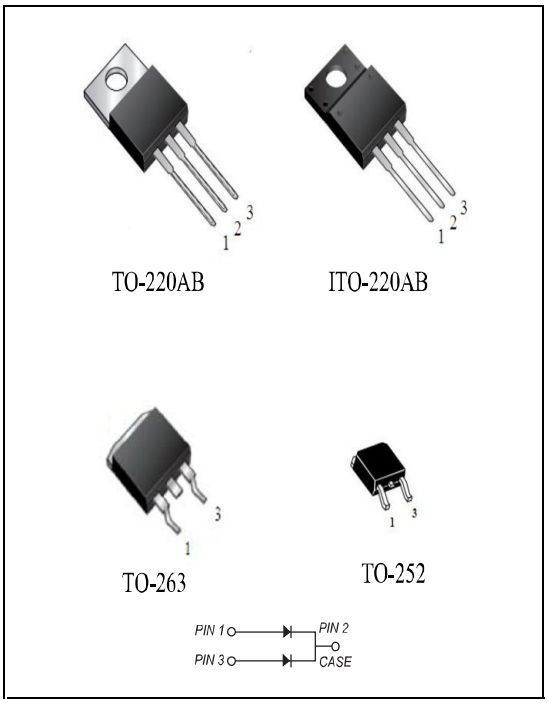
Shanghai Sinble
Electronics Co.,Ltd

MUR3005(F)CT-MUR3060(F)CT

30.0Amp Super Fast Rectifiers

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Low reverse leakage
- High forward surge current capability
- Low forward voltage,high efficiency.
- For use in low voltage,high frequency inverters.
- Dual rectifier consruction,positive center tap.
- High temperature soldering guaranteed: 250°C/10 seconds at terminals



Mechanical Data

Case: JEDEC (I)TO-22OAB molded plastic body
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
Finish :All external surfaces corrosion resistant and terminal leads are readily solderable.
Mounting Position: Any

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. Single phase half-wave 60Hz,resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	MUR 3005(F)CT	MUR 3010(F)CT	MUR 3020(F)CT	MUR 3040(F)CT	MUR 3050(F)CT	MUR 3060(F)CT	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	500	600	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	140	280	350	420	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	200	400	500	600	VOLTS
Maximum average forward rectified current at T_L=60℃	$I_{(AV)}$	30.0						Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150						Amps
Maximum instantaneous forward voltage at15.0A	V_F	1.25			1.4		1.8	Volts
Maximum DC reverse current T_A =25℃ at rated DC blocking voltage T_A=100℃	I_R	10.0 500.0						u A
Maximum reverse recovery time (NOTE 1)	t_{rr}	35			60			nS
Typical junction capacitance (Note 2)	C_J	160						pF
Typical thermal resistance	R_{qJA}	62.5						°C/W
Storage temperature range & Operating junction	T_J,T_{STG}	-55 to +150						°C

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

Ratings And Characteristic Curves

MUR3005(F)CT THRU MUR3060(F)CT

FIG. 1- FORWARD CURRENT DERATING CURVE

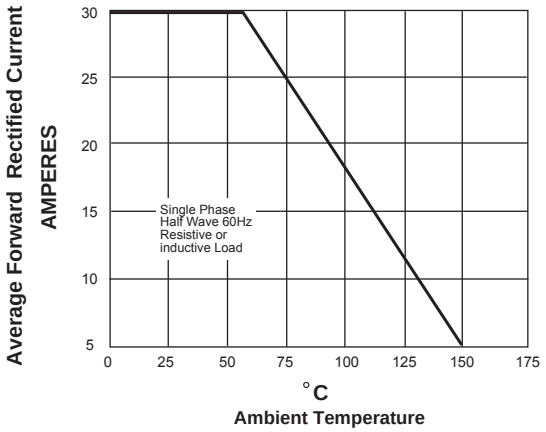


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

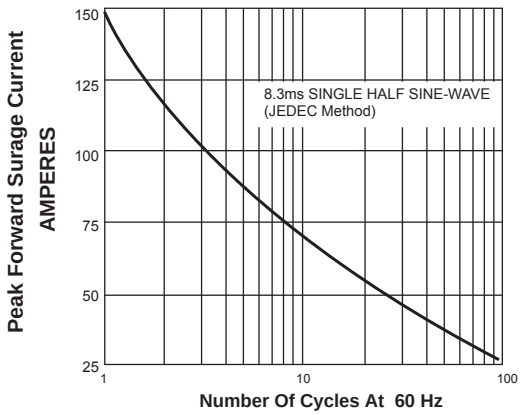


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

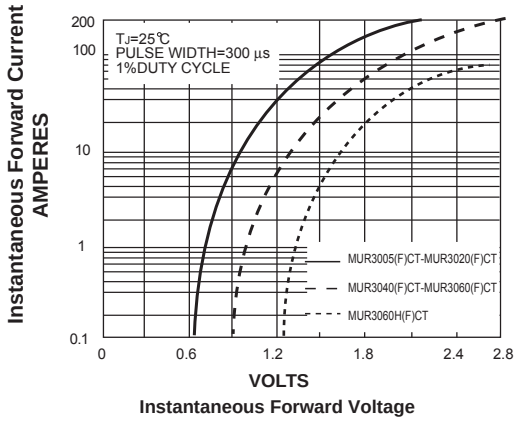
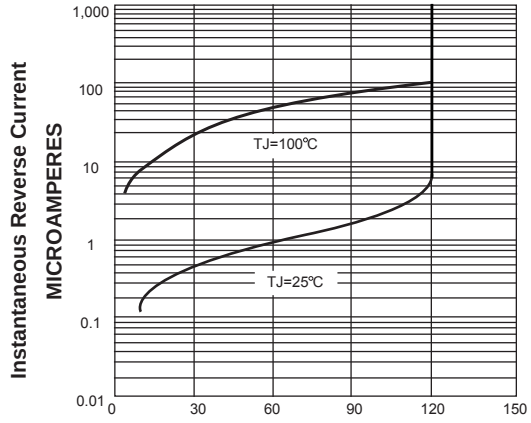
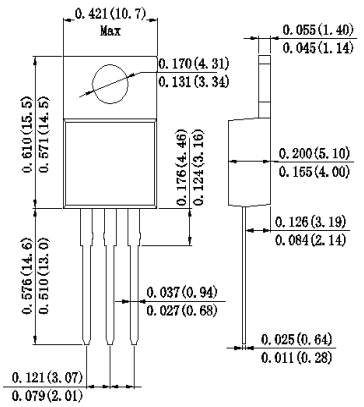


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

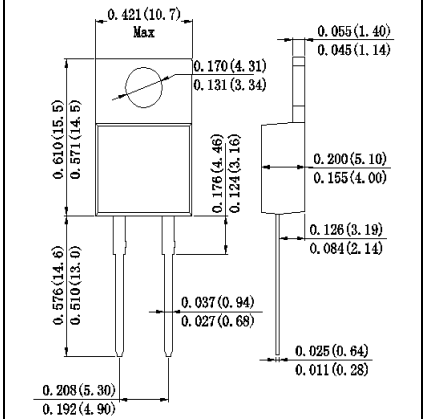


Outline Drawing

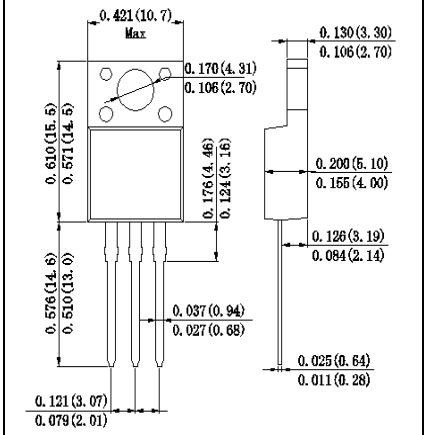
TO-220AB



TO-220AC



ITO-220AB



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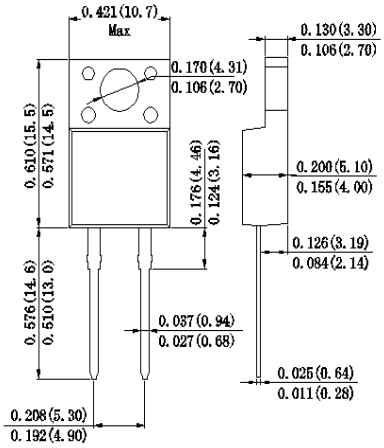
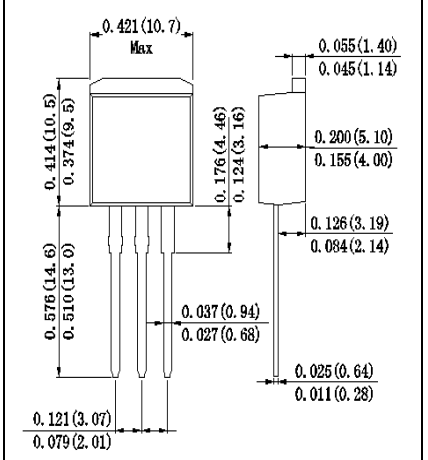
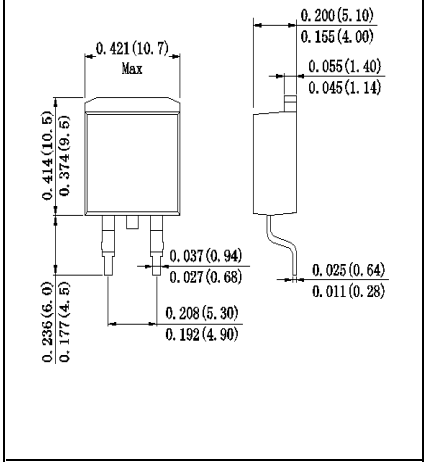


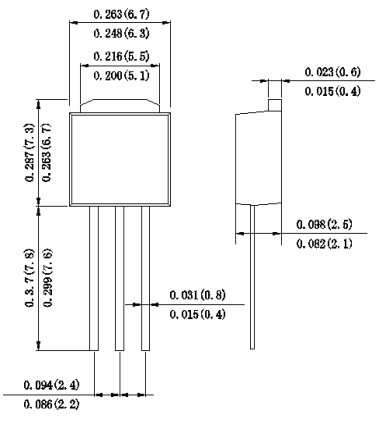
TO-262



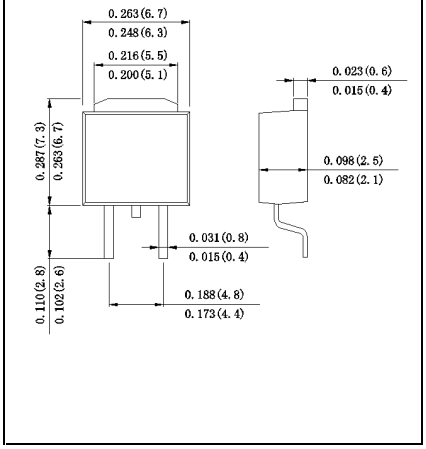
TO-263



TO-251



TO-252



Note: All dimensions in inches and (millimeters)