



MUR6005PTS-MUR6060PTS

Superfast Recovery Rectifiers

TO-247S

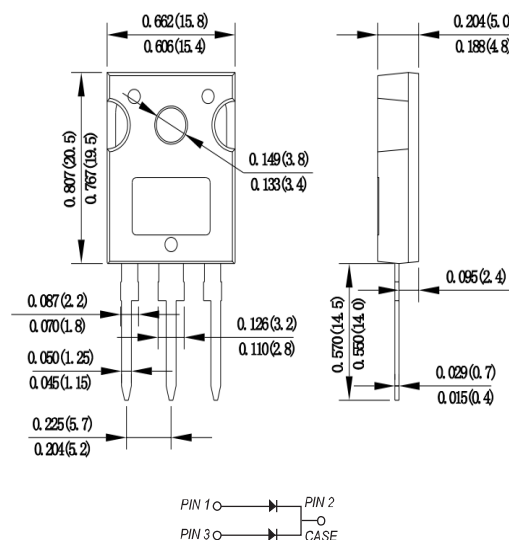
FEATURES

- Low profile package
- Low power losses, high efficiency
- Easy to pick and place
- High forward surge capability
- High temperature soldering : 260°C/10 seconds at terminals
- Lead free in comply with EU ROHS 2011/65/EU directives



Mechanical Data

- **Case** : TO-247S
- **Terminals** : Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity** : Cathode line denotes the cathode end
- **Mounting Position** : Any



Dimensions in inches and (millimeters)

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 current derate by 20%.

Parameter	SYMBOLS	MUR 6005PTS	MUR 6010PTS	MUR 6020PTS	MUR 6030PTS	MUR 6040PTS	MUR 6050PTS	MUR 6060PTS	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	V
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	V
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	V
Maximum average forward rectified current at T _c =110°C per device per diode	I _(AV)	60.0 30.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	300.0							A
Maximum instantaneous forward voltage per diode at 30.0A	V _F	1.0			1.5		2.2		V
Maximum DC reverse current at rated DC blocking voltage T _A =25°C T _A =125°C	I _R	10 200							u A
Maximum reverse recovery time	T _{rr}	35							ns
Typical thermal resistance	R _{qJC}	1.5							°C/W
Operating junction temperature range	T _J	-55 to +150							°C
Storage temperature range	T _{STG}	-55 to +150							°C

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



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Ratings And Characteristic Curves

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

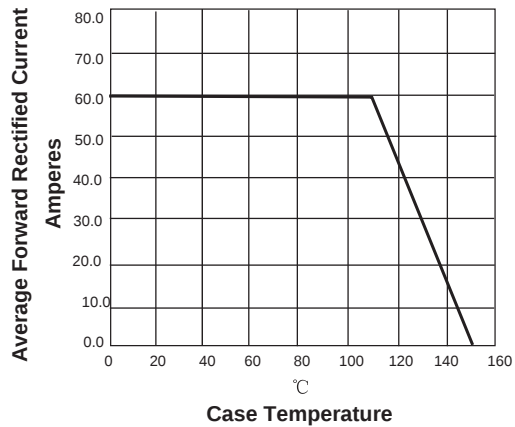


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

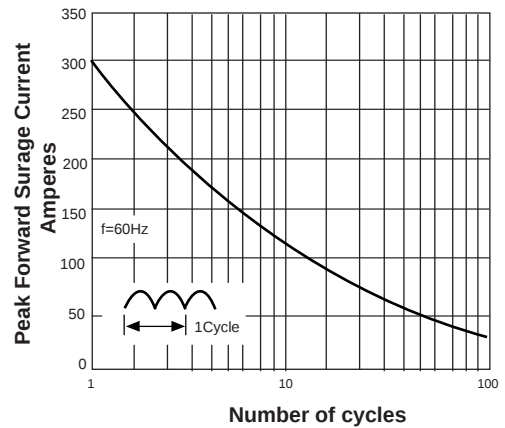


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

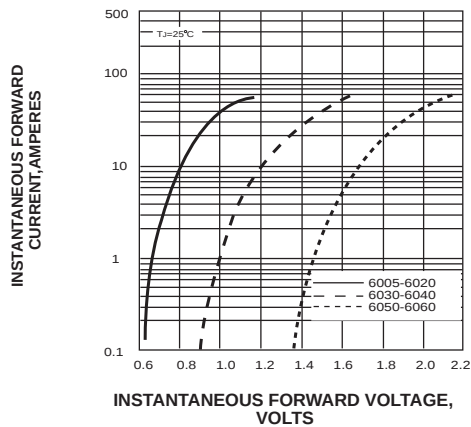


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

