MUR1520F-MUR1560F

Super Fast Rectifiers

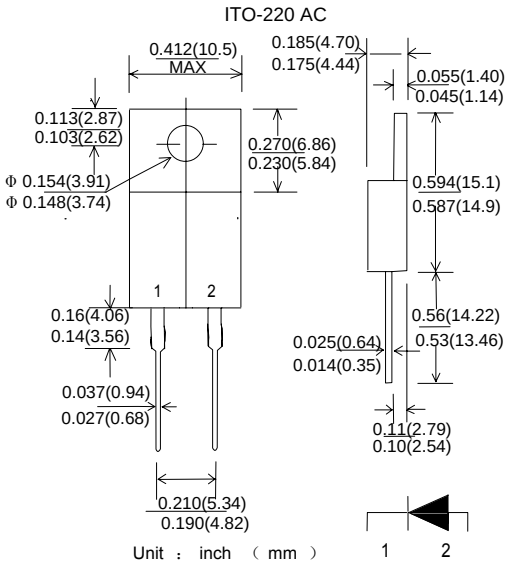
RoHS COMPLIANT

VOLTAGE RANGE:200 to 600V

CURRENT:15 Ampere

FEATURES

* Low forward voltage drop
* High current capability
* High reliability
* Low Power Loss，High Efficiency
* Ultrafast 35 and 60 Nanosecond Recovery times



MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Lead: Axial leads, solderable per MIL-STD-202, method 208 guranteed
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 1.93 grams

Maximum Ratings and Electrical Characteristics

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

Type Number	Symbol	MUR1 502	MUR1 504	MUR1 506	Unit
Maximum Repetitive Peak Reverse Voltage	VRRM	200	400	600	V
Maximum RMS Voltage	VRMS	140	280	420	V
Maximum DC Blocking Voltage	VDC	200	400	600	V
Maximum Average Forward Rectified Current	IF	15			A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	150			A
Maximum Instantaneous Forward Voltage @15A	VF	1.05	1.3	1.7	V
Maximum Reverse Current @ Rated VR TA=25 ℃ TA=125℃	IR	10 500			uA
Typical Junction Capacitance (Note 1)	Cj	150			pF
Typical Thermal Resistance(Note 2)	RθjA	30			℃/w
Operating and Storage Temperature Range	TJ	-65～+150			℃
Maximum reverse recovery time (Note 3)	Trr	50			nS

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case
NOTE3. Measured with IF = 0.5A, IR = 1.0A, IRR = 0.25A. See figure 5.

0.045(1.14)

0.587(14.9)

Typical Characteristics

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

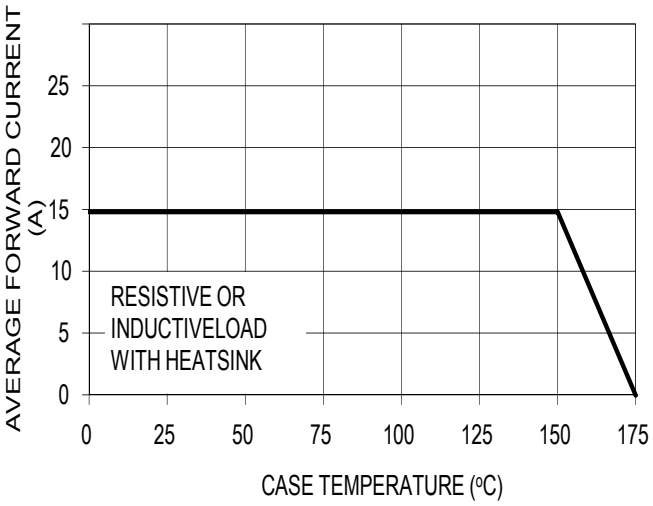


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

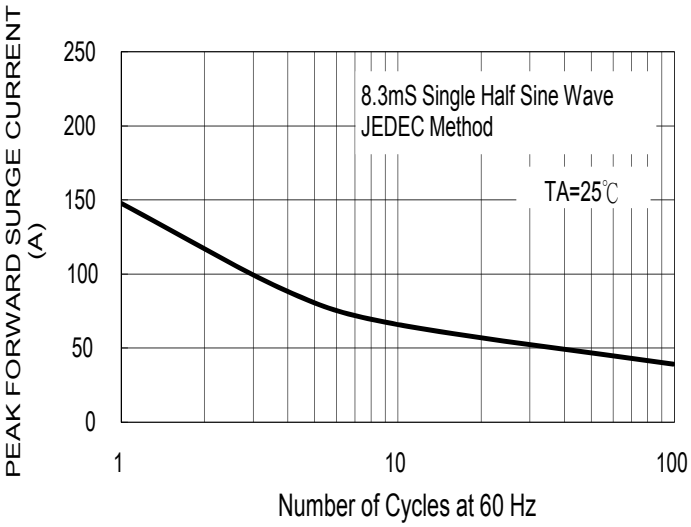


FIG. 3 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

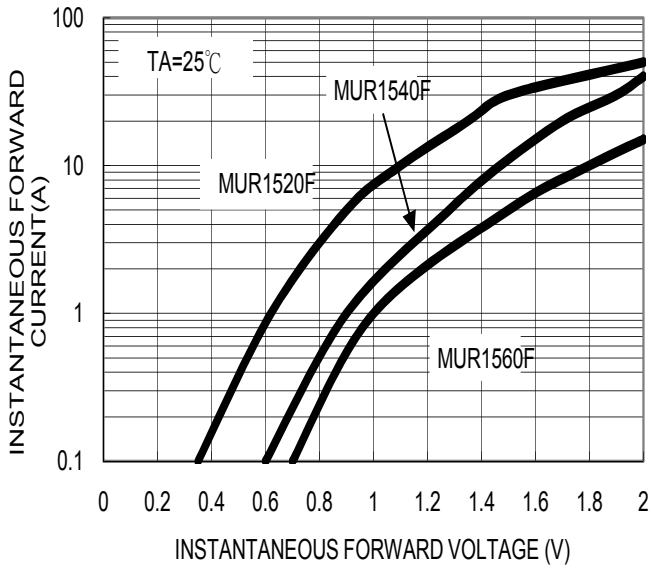


FIG. 4 TYPICAL REVERSE CHARACTERISTICS