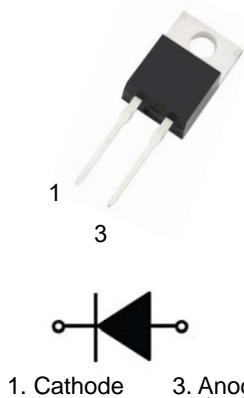


**MUR8120****Features:**

- High surge capacity
- Low Forward Voltage Drop.
- High Current Capability.
- Super Fast Switching Speed For High Efficiency

TO-220-2L

**Absolute Maximum Ratings** (Ta=25°C unless otherwise noted)

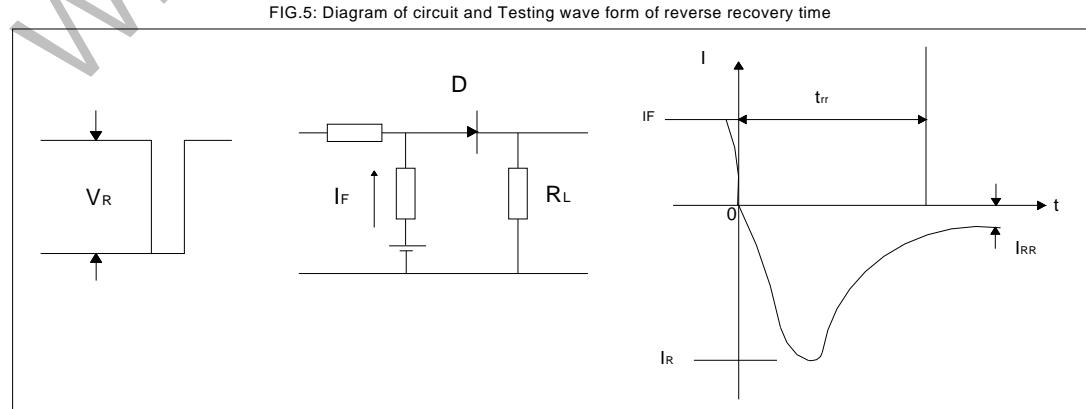
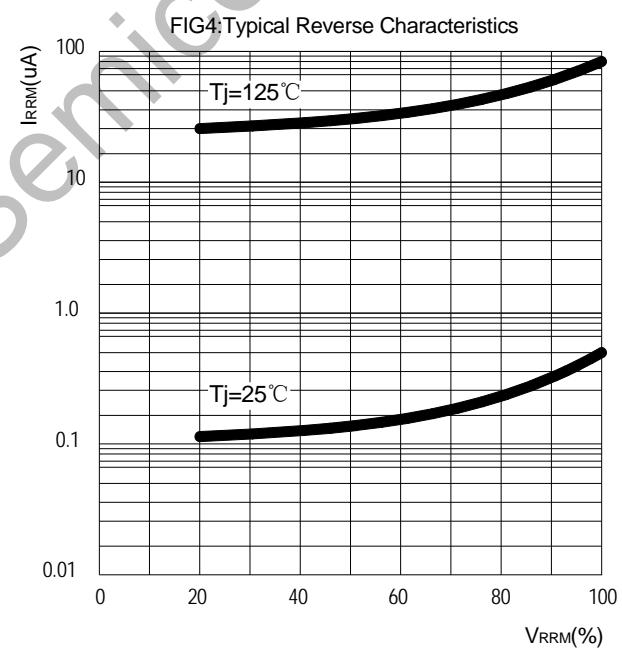
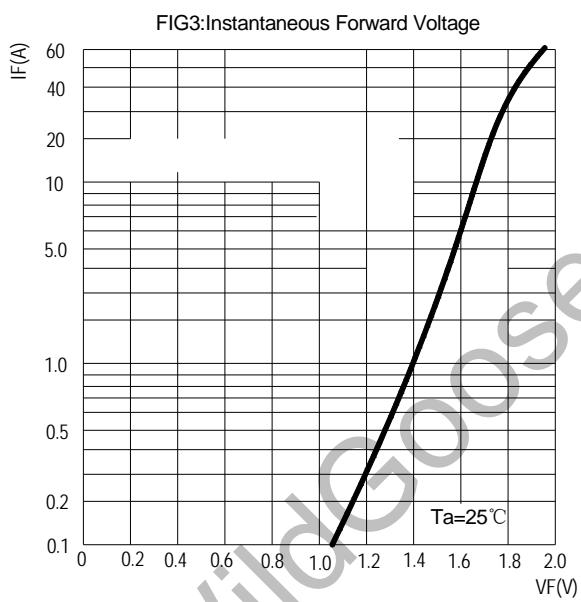
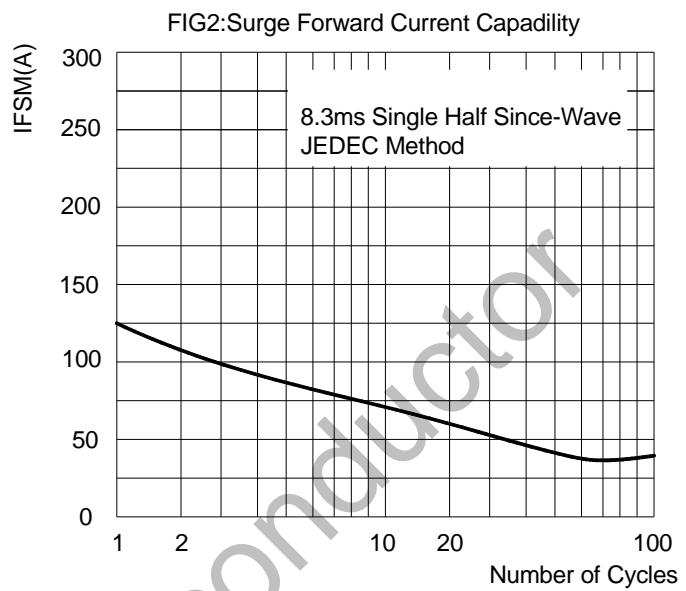
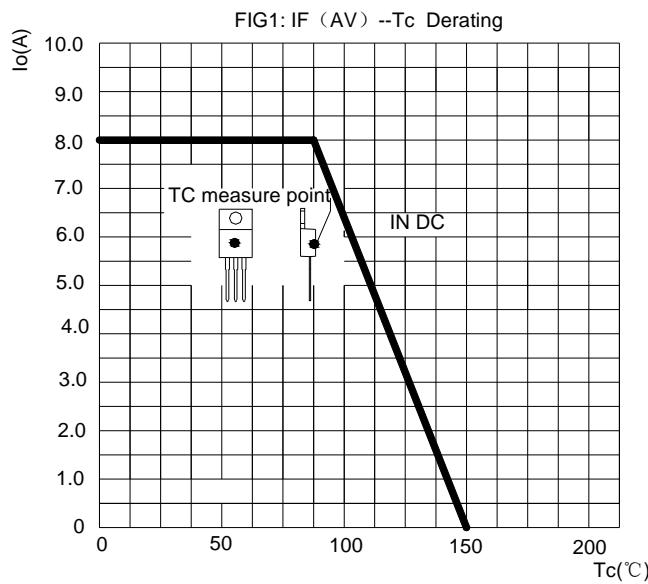
Parameter	Symbol	MUR8120	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	1200	V
Maximum RMS Voltage	V _{RMS}	840	V
Maximum DC Blocking Voltage	V _{R(DC)}	1200	V
Average Rectified Forward Current Total Device, (Rated V _R), T _C = 25°C	I _{F(AV)}	8	A
Nonrepetitive Peak Surge Current(Surge applied at rated load conditions half wave, single phase, 60 Hz)	I _{FSM}	125	A
Operating Junction Temperature and Storage Temperature	T _J , T _{Stg}	-50 to +150	°C
Maximum Thermal Resistance, Junction-to-Case	R _{θJC}	2.0	°C/W

ELECTRICAL CHARACTERISTICS

Parameter	Symbol	MUR8120	Unit
Forward Voltage (I _F = 8A, T _C = 25°C) (Note 1) (I _F = 8A, T _C = 125°C)	V _F	1.85 1.35	V
Maximum Instantaneous Reverse Current (Note 1) (Rated DC Voltage, T _C = 25°C) (Rated DC Voltage, T _C = 125°C)	I _R	10 500	µ A
Maximum Reverse Recovery Time (I _F = 0.5 A, I _R = 1.0 A, I _{REC} = 0.25 A)	T _{RR}	75	ns

Note 1.Pulse Test: Pulse Width = 300 μ s, Duty Cycle $\leq 2.0\%$

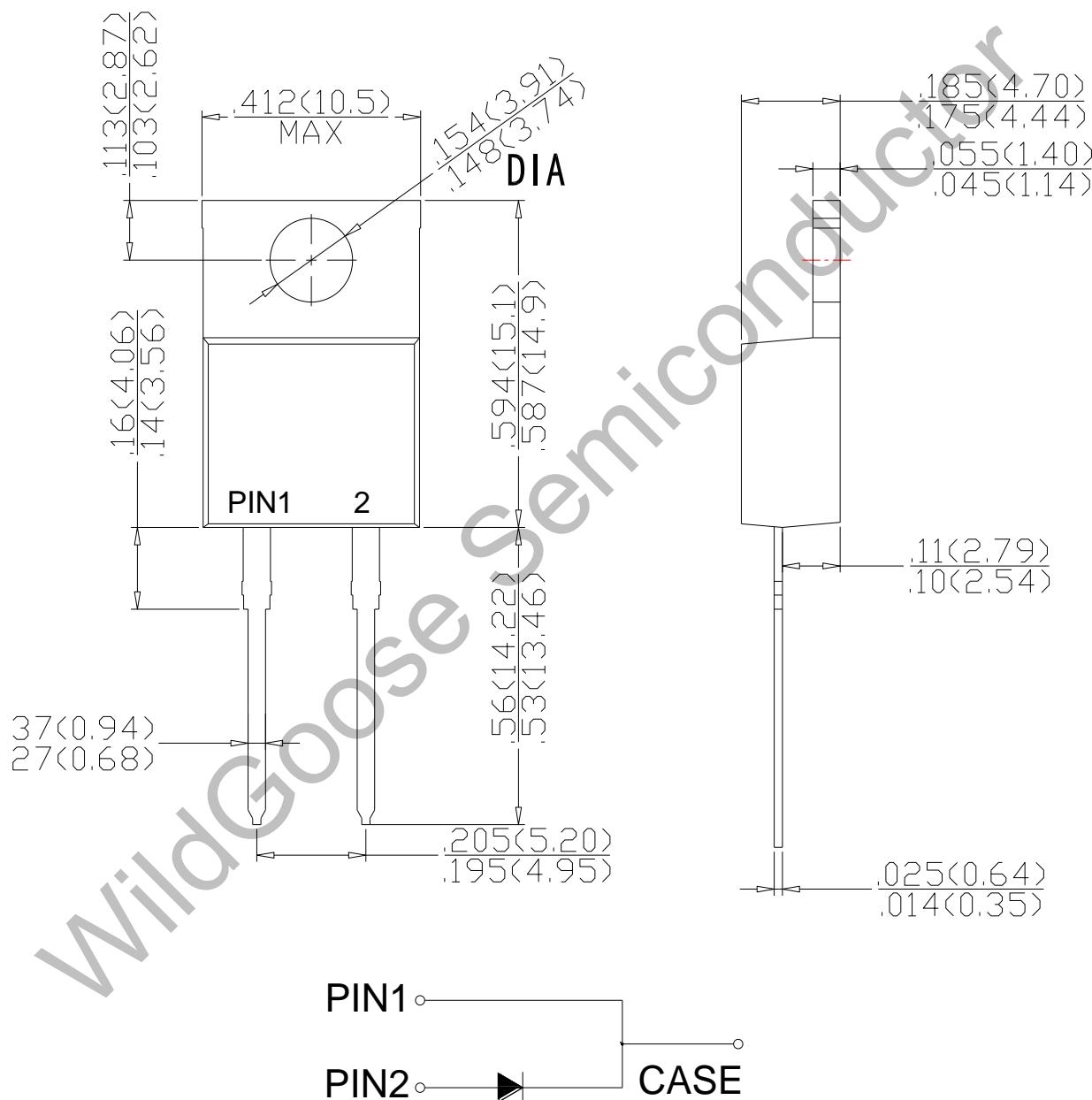
Typical Characteristics



Package Dimension

TO-220-2L

Unit: mm



Dimensions in inches and (millimeters)