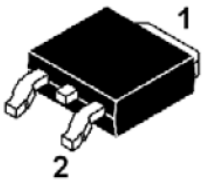
MUR520D THRU MUR560D

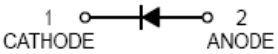
Super Fast Rectifiers

Reverse Voltage - 200 to 600 V

Forward Current – 5 A



TO-252



Features

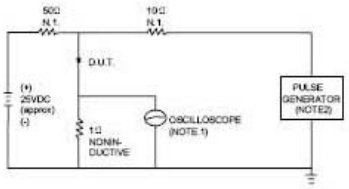
- Low leakage
- Low forward voltage
- High currnt capability
- The plastic material carries U/L recognition 94V-0

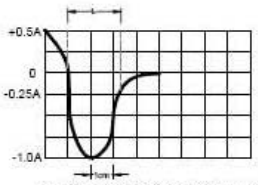
Maximum Ratings and Electrical Characteristics

Ratings at 25 °C operating temperature range applies unless otherwise specified.

Parameter	Symbols	MUR520D	MUR540D	MUR560D	Units
Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
RMS Voltage	V_{RMS}	140	280	420	V
DC Blocking Voltage	V_{DC}	200	400	600	V
Average Forward Rectified Current at T_A = 100 °C	$I_{F(AV)}$	5			A
Peak Forward Surge Current 8.3 ms Single Half-sine-wave Superimposed on Rated Load	I_{FSM}	60			A
Forward Voltage at I_F = 5 A	V_F	0.975	1.3	1.5	V
Reverse Current at Rated DC Blocking Voltage at T_A = 25 °C at T_A = 150 °C	I_R	5 250	10 500		μA
Reverse Recovery Time at I_F = 0.5 A, I_{rr} = 0.25 A, I_R = 1 A	t_{rr}	25	50		ns
Operating Junction Temperature Range	T_j	150			°C
Storage Temperature Range	T_{stg}	- 55 to + 150			°C

FIG.1 -- TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





NOTES:1.RISE TIME = 7ns MAX.INPUT IMPEDANCE =1MΩ. 22pF.
2.RISE TIME =10ns MAX.SOURCE IMPEDANCE=50 Ω.

SET TIME BASE FOR 10/20 ns/cm

FIG.2 – TYPICAL FORWARD CHARACTERISTIC

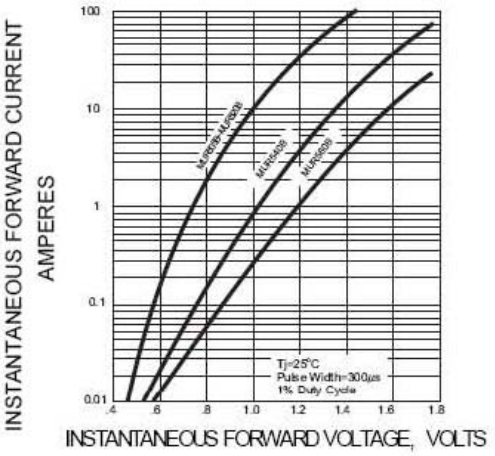


FIG.3 – PEAK FORWARD SURGE CURRENT

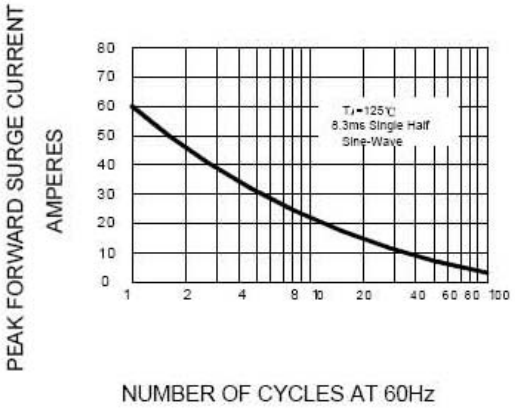
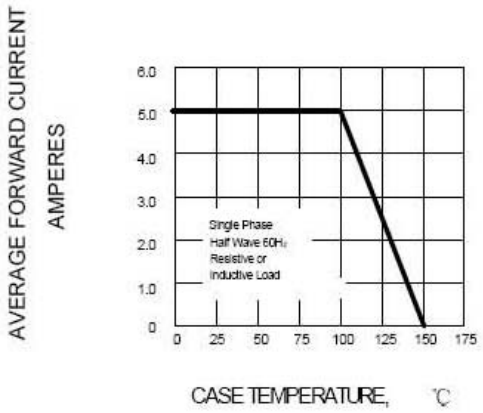
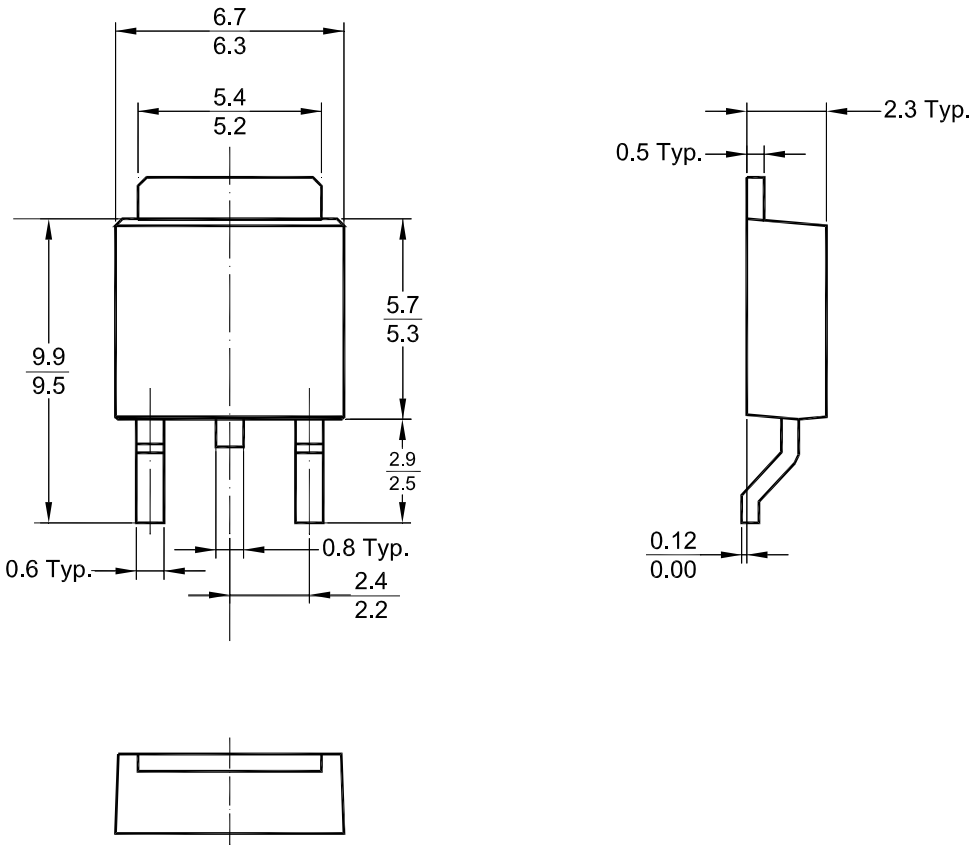


FIG.4-FORWORD DERATING CURVE



TO-252 PACKAGE OUTLINE



Dimensions in mm