

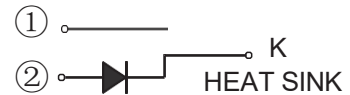
Ultra-Fast Recovery Diodes

Features

- ◆ High frequency operation.

TO-263(D²PAK)

Method



Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symble	MURB540S	MURB540S	MURB540S	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	400	600	V
Maximum RMS voltage	V_{RMS}	140	280	420	V
Maximum DC Blocking Voltage	V_{DC}	200	400	600	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5			A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)(Per leg)	I_{FSM}	50			A
Max Instantaneous Forward Voltage at 5 A	V_F	1.0	1.3	1.6	V
Maximum DC Reverse Current $T_a = 25^{\circ}\text{C}$ at Rated DC Reverse Voltage $T_a = 125^{\circ}\text{C}$	I_R	10 500			uA
Maximum Reverse Recovery Time ⁽¹⁾	t_{rr}	35			ns
Typical Thermal Resistance	$R_{\theta JC}$	4			°C/W
Operating Junction Temperature Range	T_j	-55 ~ +175			°C
Storage Temperature Range	T_{stg}	-55 ~ +175			°C

NOTE 1: Reverse recovery test conditions $I_F=0.5\text{A}$, $I_R=1.0\text{A}$, $I_{rr}=0.25\text{A}$

Ratings And Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

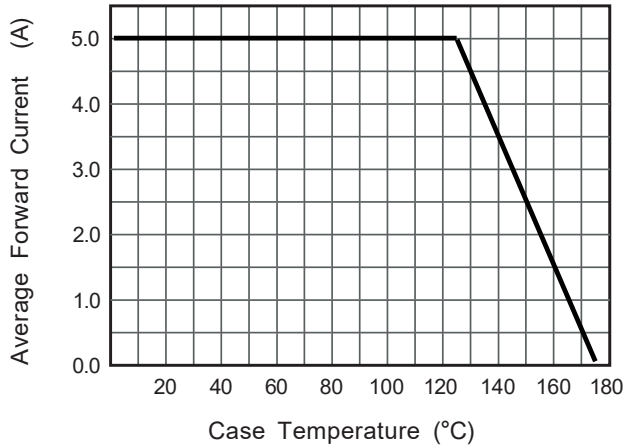


Fig.2 Typical Reverse Characteristics

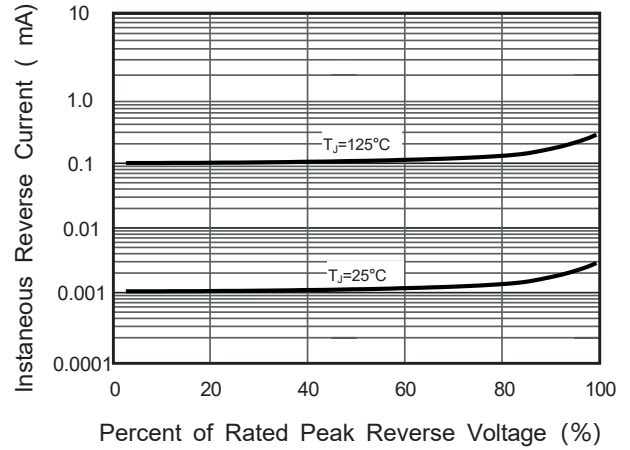


Fig.3 Typical Forward Characteristic

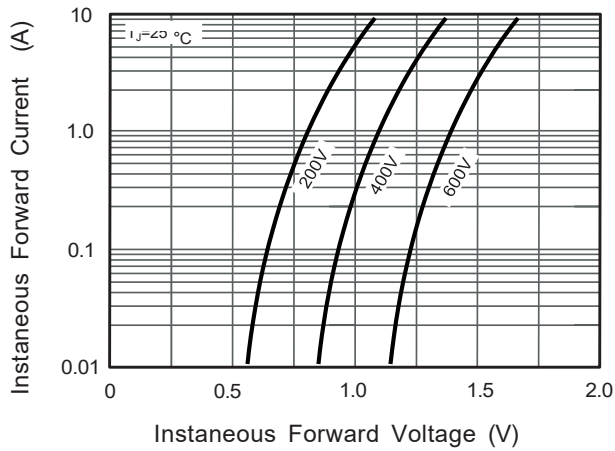
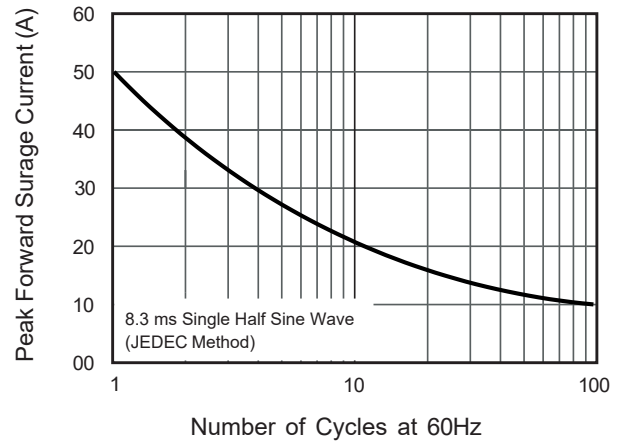


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



The curve above is for reference only.