MUR560S

Surface Mount Super Fast Recovery Rectifier Reverse Voltage - 600 V Forward Current - 5 A

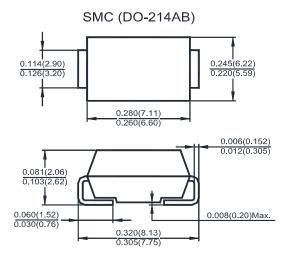
Features

- · For surface mounted applications
- · Low profile package
- · Super fast reverse recovery time

Mechanical Data

• Case: SMC(DO-214AB)

• Terminals: Solderable per MIL-STD-750, Method 2026



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %

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Parameter	Symbols	Value	Units
	Marking	MURC5J	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC Blocking Voltage	V_{DC}	600	V
Maximum Average Forward Current at T _C = 100°C	$I_{F(AV)}$	5	А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	110	А
Maximum Forward Voltage at I _F = 5 A	V_{F}	1.3	V
	I _R	5 100	μΑ
Typical Junction Capacitance 1)	C_{j}	50	pF
Maximum Reverse Recovery Time 2)	t _{rr}	50	ns
Typical Thermal Resistance 3)	$R_{\theta JA}$	40	°C/W
Operating and Storage Temperature Range	T_j , T_{stg}	- 55 to + 150	°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

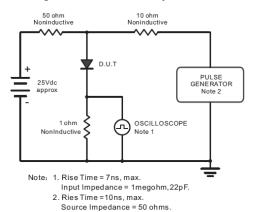


 $^{^{2)}}$ Measured with I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A.

 $^{^{3)}\,}P.C.B$ mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

Electrical Characteristics Curves

Fig. 1 Reverse Recovery Time Characteristic And Test Circuit Diagram



-1.0 20ns/div

+0.5

Fig. 2 Maximum Average Forward Current Rating

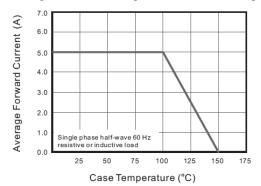


Fig.3 Typical Reverse Characteristics

Set time Base for 20ns/div

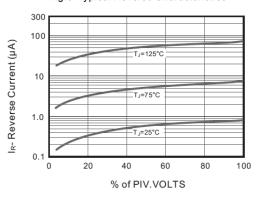


Fig.4 Typical Forward Characteristics

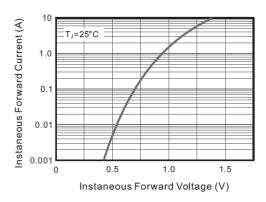


Fig.5 Typical Junction Capacitance

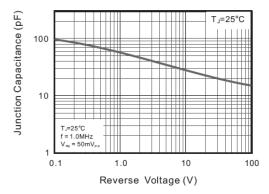


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current

