Rectifier Superfast Recovery Type

FEATURES

- Surge Overload rating: 150 amperes peak
- Forward Current: 5.0A
- Reverse Voltage: 50~1000V
- Superfast recovery times
- Low leakage current
- Glass Passivated Die Construction



ELECTRICAL CHARACTERISTICS

Parameter	Symbol	SF51G	SF52G	SF53G	SF54G	SF55G	SF56G	SF58G	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	420	v
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Length at $T_A=55^{\circ}C$	I _(AV)				5.0				
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}				150.0				A
Maximum Forward Voltage at 5.0A DC and 25°C	V _F	0.95			1.3		1.7	v	
Maximum Reverse Current at Rated DC Blocking Voltage $T_A=25^{\circ}C$	I _R				5.0				
Maximum Reverse Current at Rated DC Blocking Voltage $T_A=100^{\circ}C$	I _R				100				μΑ
Typical Junction Capacitance (Note 1)	CJ		12	20			60		pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	20.0						°C/W	
Maximum Reverse Recovery Time (Note 3)	T _{RR}	35						Ns	
Operating and Storage Temperature Range	T _J ,T _{stg}	-65~+150							°C

1. Measured at 1 MHZ and applied reverse voltage of 4.0 VDC.

2. Thermal Resistance Junction to Ambient and form junction to lead at 0.375" (9.5mm) lead length P.C.B. Mounted.

3. Reverse Recovery Test Conditions : I_F=0.5A, I_R=1A, I_{RR}=0.25A.

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

DO-201AD DIMENSIONS

DO-201AD



Dimensions in Inches and (mm)

SF51G to SF58G MERITEK

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CHARACTERISTIC CURVES





Typical Reverse Characteristics

SF51G to SF58G



Maximum Non-Repetitive Forward Surge Current

