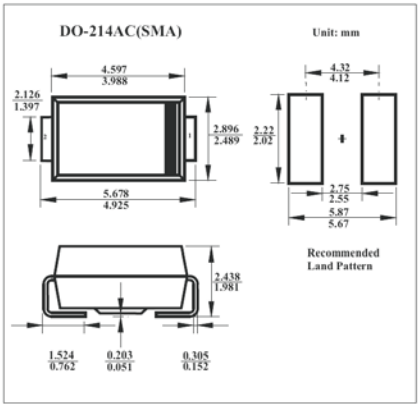
General Purpose Rectifiers

GF1A - GF1M

Features

- Low forward voltage drop.
- High current capability.
- Easy pick and place.
- High surge current capability.



Maximum Ratings And Electrical Characteristics at 25℃

Parameter	Symbol	GF1A	GF1B	GF1D	GF1G	GF1J	GF1K	GF1M	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	100	
Maximum Average Forward Rectified Current,at T_L=75℃	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							A
Maximum Instantaneous Forward Voltage at 1.0A	V_F	1.0					1.2		V
Maximum DC Reverse Current T_A=25℃ at Rated DC Blocking Voltage T_A=125℃	I_R	5.0 50.0							μA
Maximum Reverse Recovery Time(Note 1) T_J=25℃	T_{RR}	2.0							μs
Typical Junction Capacitance (Note 2)	C_J	12							pF
Maximum Thermal Resistance(Note 3) $R_{\theta JA}$	$R_{\theta JA}$	30							℃/W
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150							℃

Note 1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1.0A, I_{rr}=0.25A

2. Measured at 1 MHz and applied Vr = 4.0 V.

3. 8.0 mm^2 (.013mm thick) land areas.