



G3FSA

3 kV, 25 mA, Fast Recovery
High Voltage Diode

Features

- High peak reverse voltage
- Fast Recovery time
- Low junction capacitance
- Very low reverse leakage current
- Small package outline
- RoHS compliant to Directive: 2011/65/EC, Article 4(1), Annex II, Annex III, 7(a)



Device Electrical Characteristics

(25 °C ambient temperature unless stated otherwise)

	Conditions	Symbol	Value
Maximum Repetitive Peak Reverse Voltage	-	V_{RRM}	3,000 Volts
Average Forward Current Max.	$T_A = 55^\circ\text{C}$	I_{FAVM}	25 mA
Maximum Forward Voltage Drop	$I_F = 10\text{ mA}$	V_F	12 Volts
Maximum Reverse Current	@ V_{RRM}	I_R	0.20 μA
Maximum Reverse Recovery Time	$I_F=4.0\text{mA}; I_R=10\text{mA}; I_{rr} = 2.0\text{ mA}$	T_{RR}	75 nsec
Maximum Surge Current	8.3msec, Half Sine	I_{FSM}	3.0 Amps
Typical Junction Capacitance	$f=1\text{MHz}, V_R = 0\text{ VDC}$	C_J	0.50pf
Maximum Junction Temperature	-	T_J	150°C
Maximum Storage Temperature	-	T_S	-55°C to 150°C

Mechanical Data

	Symbol	Min.		Max.	
		in.	mm	in.	mm
Body Length	A	-	-	0.195	5.0
Body Diameter	D	-	-	0.080	2.0
Lead Length	B	1.0	25.4	-	-
Lead Diameter	C	-	-	0.020	0.50

