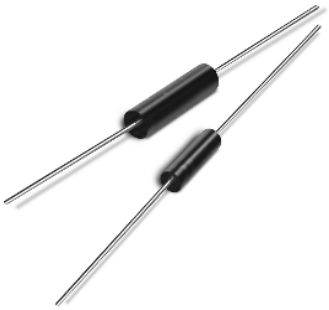
G12FS

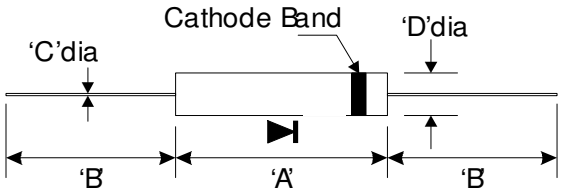
12KV, 25mA, Fast Recovery
High Voltage Rectifier

Features

- Fast reverse recovery time for high efficiency
- Molded plastic body, ANSI/UL94 V-0 rated material
- 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}	12,000 Volts
Average Forward Current maximum	T_A = 55°C	I_{FAVM}	25 mA
Maximum Forward Voltage Drop	I_F = 10mA	V_F	25 Volts
Maximum Surge Current rating	8.3msec, half sine	I_{FSM}	3 Amps
Maximum Reverse Current	at rated V_{RRM}	I_R	0.2 µA
Maximum Reverse Recovery Time	I_F=20mA, I_R= 40mA, I_{RR}= 10mA	T_{RR}	100 ηsec
Typical Junction Capacitance	f = 1MHz, V_R= 0 VDC	C_J	0.26 pf
Maximum Junction Temperature	-	T_J	125°C
Storage Temperature range	-	T_{STG}	-40°C to 150°C

		Min.		Max.	
Mechanical Data		**in.**	**mm**	**in.**	**mm**
Body length	**A**	-	-	0.40	10.2
Body diameter	**D**	-	-	0.12	3.1
Lead length	**B**	.95	24.2	-	-
Lead diameter	**C**	-	-	0.024	0.61