



# G20,25,30FS High Voltage Rectifiers



## G20,25,30FS HV Diode Series

### Features:

- High peak reverse voltage
- Fast Recovery time
- Low junction capacitance
- Very low reverse leakage current
- Small package outline

## ELECTRICAL CHARACTERISTICS AND RATINGS

		G20FS	G25FS	G30FS
Repetitive Peak Reverse Voltage	$V_{RRM}$	20,000 Volts	25,000 Volts	30,000 Volts
Average Forward Current Max @ $T_A = 55^\circ\text{C}$	$I_{FAVM}$	25 mA		
Maximum Forward Voltage Drop @ $I_F = 10\text{mA}$ @ $25^\circ\text{C}$	$V_F$	35 Volts	42 Volts	48 Volts
Maximum Reverse Current @ $V_{RRM}$ @ $25^\circ\text{C}$	$I_R$	0.20 $\mu\text{A}$		
Maximum Reverse Recovery Time ( $I_F = 4\text{mA}$ , $I_R = 10\text{mA}$ , $I_{rr} = 2\text{mA}$ ; $T_A = 25^\circ\text{C}$ )	$T_{RR}$	100 ns		
Typical Junction Capacitance ( $f = 1\text{ MHz}$ , $V_R = 0\text{ volt}$ )	$C_J$	0.25 pF	0.20 pF	0.26pF
Maximum Forward Surge Current (8.3ms, $\frac{1}{2}$ sine wave)	$I_{FSM}$	3.0 Amps		
Maximum Junction Temperature	$T_J$	125°C		
Maximum Storage Temperature	$T_S$	-55°C to +150°C		

## CASE OUTLINE AND DIMENSIONS

Case Length	<b>Lmax</b>	12 mm/0.47 in.
Case Diameter	<b>Dmax</b>	3.1 mm/0.12 in.
Lead Diameter	<b>ØLead</b>	0.65 mm/0.026 in. typ.
Lead length		15 mm/0.6 in. min.

