



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°C	V_F	35 Volts	42 Volts	48 Volts
Maximum Reverse Current @ V_{RRM} @ 25°C	I_R	0.20 μA		
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	Lmax	12 mm/0.47 in.
Case Diameter	Dmax	3.1 mm/0.12 in.
Lead Diameter	ØLead	0.65 mm/0.026 in. typ.
Lead length		15 mm/0.6 in. min.

