



G30FS

30KV, 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}	30,000 Volts
Average Forward Current maximum	$T_A = 55^\circ\text{C}$	I_{FAVM}	25mA
Maximum Forward Voltage Drop	$I_F = 25\text{mA}$	V_F	48 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	$I_F = 20\text{mA}, I_R = 40\text{mA}, I_{RR} = 10\text{mA}$	T_{RR}	100 ηsec
Typical Junction Capacitance	$f = 1\text{MHz}, V_R = 0\text{VDC}$	C_J	0.26 pf
Maximum Junction Temperature	-	T_J	125°C
Storage Temperature range	-	T_{STG}	-40°C to 150°C

Mechanical Data

		Min.		Max.	
		in.	mm	in.	mm
Body length	A	-	-	0.47	12
Body diameter	D	-	-	0.12	3.1
Lead length	B	1.0	25.4	-	-
Lead diameter	C	-	-	0.025	0.6

