

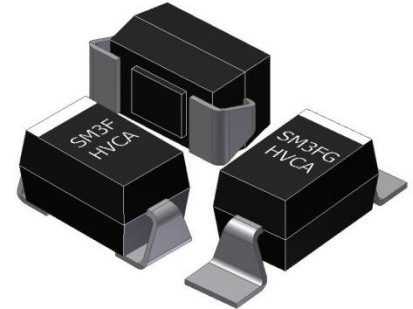


SM3F & SM3FG

3KV, 900mA, Fast Recovery
Surface Mount Diodes

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
Repetitive Peak Reverse Voltage	-	V_{RRM}	3000 V
Average Forward Current Max.	$T_L = 55^\circ\text{C}$, Note 1	I_{FAVM}	900 mA
Average Forward Current Max.	$T_L = 100^\circ\text{C}$, Note 1	I_{FAVM}	350 mA
Maximum Forward Voltage Drop	$I_F = 100\text{ mA}$	V_F	3.7 V
Typical Junction Capacitance	$f = 1\text{ MHz}$, $V_R = 0\text{ V}_{DC}$	C_J	6 pf
Maximum Reverse Current	at rated V_{RRM}	I_R	0.5 μA
Max. Reverse Recovery Time	$I_F = 250\text{mA}$; $I_R = 500\text{mA}$; $I_{rr} = 125\text{mA}$	T_{RR}	65 ns
Maximum Surge Current	8.3msec, half sine	I_{FSM}	10 A
Maximum Junction Temperature	-	T_J	150°C
Maximum Storage Temperature Range	-	T_S	-55°C to 150°C
Typical Thermal Resistance	Note 1	$R_{\theta JL}$	27°C/W

Note 1: Mounted on 0.2" x 0.2" (5mm x 5mm) copper solder pads.

Mechanical Characteristics:

