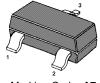
Silicon Epitaxial Planar Switching Diode

Fast switching in thick and thin-film circuits diode





Marking Code: **A7** SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

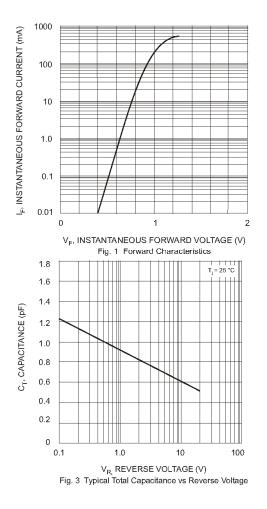
Parameter		Symbol	Value	Unit
Repetitive Peak Reverse Voltage		V _{RRM}	85	V
Continuous Reverse Voltage		V _R	75	V
Continuous Forward Current (Double Diode Loaded)		I _F	125	mA
Continuous Forward Current (Single Diode Loaded)		I _F	215	mA
Repetitive Peak Forward Current		I _{FRM}	450	mA
Non-repetitive Peak Forward Surge Current	at t = 1 s at t = 1 ms at t = 1 µs	I _{FSM}	0.5 1 4.5	A
Power Dissipation	·	P _{tot}	350	mW
Junction Temperature		Tj	150	°C
Storage Temperature Range		T _{stg}	- 65 to + 150	°C

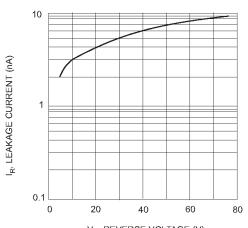
Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V _F	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 V$ at $V_R = 75 V$ at $V_R = 25 V$, $T_j = 150 °C$ at $V_R = 75 V$, $T_j = 150 °C$	I _R	30 1 30 50	nA μA μA μA
Diode Capacitance at $V_R = 0$, f = 1 MHz	C _d	1.5	pF
Reverse Recovery Time at $I_F = I_R = 10 \text{ mA}$, $I_R = 1 \text{ mA}$, $R_L = 100 \Omega$	t _{rr}	4	ns



TOP DYNAMIC









TOP DYNAMIC

Dated : 15/06/2012