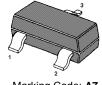
## Silicon Epitaxial Planar Switching Diode

Fast switching in thick and thin-film circuits diode





Marking Code: **A7** TO-236 Plastic Package

## Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

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

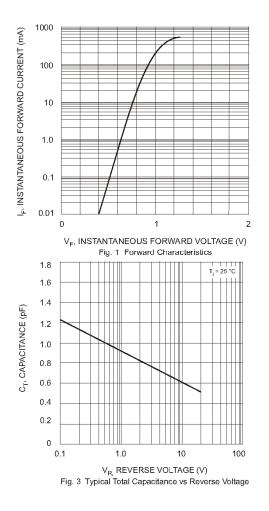
## Characteristics at T<sub>a</sub> = 25 °C

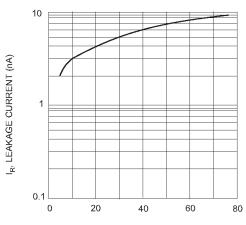
Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 1 \text{ mA}$ at $I_F = 10 \text{ mA}$ at $I_F = 50 \text{ mA}$ at $I_F = 150 \text{ mA}$	V <sub>F</sub>	0.715 0.855 1 1.25	V
Reverse Current at $V_R = 25 V$ at $V_R = 75 V$ at $V_R = 25 V$ , $T_j = 150 °C$ at $V_R = 75 V$ , $T_j = 150 °C$	I <sub>R</sub>	30 1 30 50	nA μA μA μA
Diode Capacitance at V <sub>R</sub> = 0 , f = 1 MHz	C <sub>d</sub>	1.5	pF
Reverse Recovery Time at I <sub>F</sub> = 10 mA, V <sub>R</sub> = 6 V, I <sub>RR</sub> = 1 mA, R <sub>L</sub> = 100 $\Omega$	t <sub>rr</sub>	4	ns















SEMTECH ELECTRONICS LTD.



Dated : 18/06/2016 Rev: 02