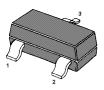
HIGH SPEED DOUBLE SWITCHING DIODE

Features

- Small package
- Low forward voltage
- Fast reverse recovery time
- Small total capacitance

Applications

• Ultra high speed switching application



Marking Code: A1 SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter			Symbol	Value	Unit
Peak Repetitive Reverse Voltage		V _{RRM}	85	V	
Continuous Reverse Voltage			V _R	75	V
Forward Current (DC)	Single Diode Loaded Double Diode Loaded		I _F	215 125	mA
Repetitive Peak Forward Curre	ent		I _{FRM}	450	mA
Non-Repetitive Peak Forward Current		at t = 1 µs		4	А
		at t = 1 ms	I _{FSM}	1	А
		at t = 1 s		0.5	А
Power Dissipation			P _{tot}	250	mW
Operating Junction Temperatu	re Range		TJ	150	°C
Storage Temperature Range			Ts	- 65 to + 150	°C

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage			
at I _F = 1 mA	V _F	715	mV
at I _F = 10 mA	V _F	855	mV
at I _F = 50 mA	V _F	1	V
at I _F = 150 mA	V _F	1.25	V
Reverse Current			
at V _R = 25 V	I _R	30	nA
at V_R = 75 V	I _R	1	μA
at V _R = 25 V, T _J = 150 °C	I _R	30	μA
at V _R = 75 V, T _J = 150 °C	I _R	50	μA
Diode Capacitance	C _d	2	рЕ
at f = 1 MHz	Cd	2	pF
Reverse Recovery Time	4	4	20
at $I_{\rm F} = I_{\rm R} = 10$ mA, $R_{\rm I} = 100 \Omega$	t _{rr}	4	ns

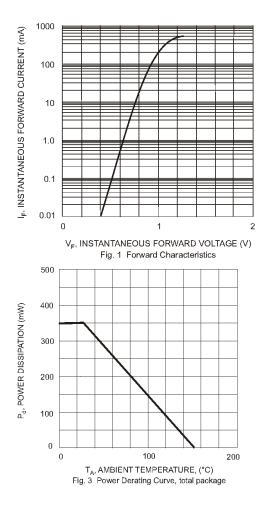


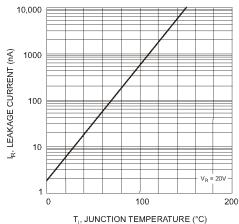
SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company

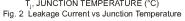
listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 22/01/2008













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