



High Speed Switching Diode





Features

- V_R 75V
- I_{FAV} 200mA

Typical Applications

Extreme fast switches

Mechanical Data

- Package: SOD-323
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- Marking: T4

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V_{RRM}	V		75
Peak forward surge current	I _{FSM}	Α	t _ρ =10μs	2
Average forward current	I _{FAV}	mA		200
Power dissipation	P _{tot}	mW		350
Thermal Resistance	R _{thJA}	°C/W		315
Maximum junction temperature	T _j	$^{\circ}$		-55 ~ +150
Storage temperature range	T _{stg}	$^{\circ}$		-55 ~ +150

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	Min	Тур	Max
Maximum Forward voltage	VF	V	I _F =1mA			0.715
	VF	V	I _F =10mA			0.855
	VF	V	I _F =50mA			1.0
	VF	V	I _F =150mA			1.25
Maximum Reverse current	IR	μΑ	V _R =75V			1.0
Minimum Breakdown voltage	V _R	V	I _R =100μA	100		
Maximum Diode capacitance	C _D	pF	$V_R=V_F=0V$, $f=1MH_Z$			4
Maximum Reverse recovery time	t _{rr}	ns	I_F =10mA,Irr=0.1 I_R , R_L =100 Ω			6

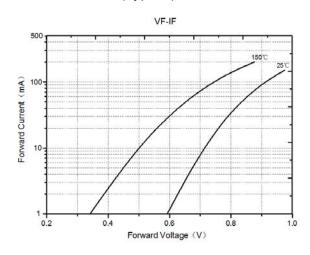


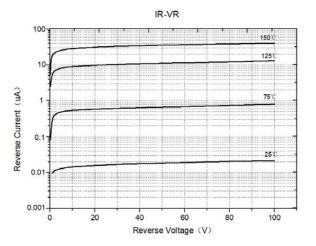
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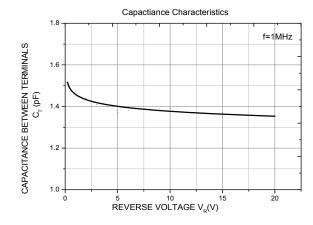
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
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■ Characteristics (Typical)



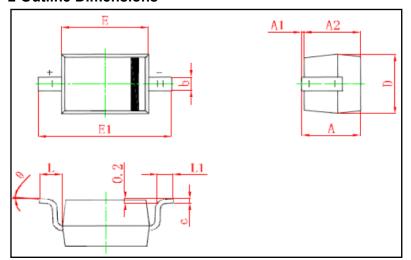






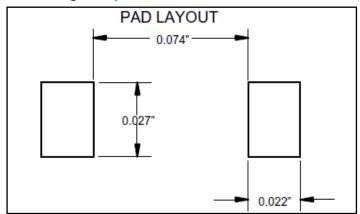


■ Outline Dimensions



Symbol	Min. (mm)	Max. (mm)	
A		1.000	
A1	0.000	0.100	
A2	0.800	0.900	
b	0. 250	0.400	
С	0.080	0.150	
D	1. 200	1. 400	
Е	1.600	1.800	
E1	2. 500	2.700	
L	0. 475REF		
L1	0. 250	0.400	
θ	0°	8°	

■ Soldering Footprint



Unit: inches



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