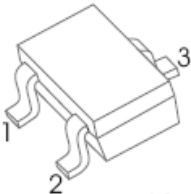


SWITCHING DIODE		SOT-323 Plastic-Encapsulate Diodes				
SOT-323  1 2 3 1 2 3 Marking :A4		Features - Fast Switching Speed - For General Purpose Switching Applications - High Conductance				
Maximum Ratings @Ta=25°C						
Parameter	Symbol	Limit			Unit	
Non-Repetitive Peak Reverse Voltage	V _{RM}	100			V	
Peak Repetitive Peak Reverse Voltage	V _{RRM}	75			V	
Working Peak Reverse Voltage	V _{RWM}					
DC Blocking Voltage	V _R					
RMS Reverse Voltage	V _{R(RMS)}	53			V	
Forward Continuous Current	I _{FM}	300			mA	
Average Rectified Output Current	I _O	150			mA	
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0			A	
Power Dissipation	P _d	200			mW	
Thermal Resistance Junction to Ambient	R _{θJA}	625			°C/W	
Junction Temperature	T _j	150			°C	
Storage Temperature	T _{STG}	-55~+150			°C	
Electrical Ratings @Ta=25°C						
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	75			V	I _R =100μA
Forward voltage	V _{F1}			0.715	V	I _F =1mA
	V _{F2}			0.855	V	I _F =10mA
	V _{F3}			1.0	V	I _F =50mA
	V _{F4}			1.25	V	I _F =150mA
Reverse current	I _{R1}			2.5	μA	V _R =75V
	I _{R2}			25	nA	V _R =20V
Capacitance between terminals	C _T			2	pF	V _R =0V,f=1MHz
Reverse recovery time	t _{rr}			4	ns	I _F =I _R =10mA I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics

