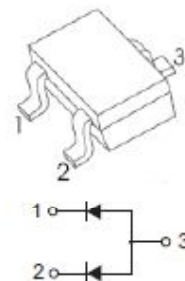


Plastic-Encapsulate Diodes SWITCHING DIODE

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- MARKING: KJC



SOT-323

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
Peak Forward Surge Current	I_{FSM}	2	A
@t=1.0μs		1	
@t=1.0s			
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	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	IR=100μA
Forward voltage	V_{F1}			0.715	V	IF=1mA
	V_{F2}			0.855		IF=10mA
	V_{F3}			1.0		IF=50mA
	V_{F4}			1.25		IF=150mA
Reverse current	I_{R1}			2.5	uA	VR=75V
	I_{R2}			25	nA	VR=20V
Capacitance between terminals	C_T			2	pF	VR=0V, f=1MHz
Reverse recovery time	trr			4	ns	IF=IR=10mA Irr=0.1XIR, RL=100Ω