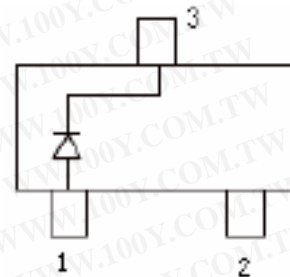


SWITCHING DIODE
SOT-323
FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

CMARKING: KA3

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1.ANODE
 2.N, C
 3.CATHODE

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	100	V
Peak Repetitive Peak reverse voltage	V _{RPM}	75	V
Working Peak Reverse Voltage	V _{RFM}		
DC Blocking Voltage	V _R	53	V
RMS Reverse Voltage	V _{R (RMS)}		
Forward Continuous Current	I _{FM}	500	mA
Average Rectified Output Current	I _O	250	mA
Peak forward surge current @=1.0μs	I _{FSM}	4.0	A
@=1.0s		2.0	
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient	R _{θJA}	625	°C/W
Storage Temperature	T _{STG}	-65 to +155	°C

Electrical Ratings @T_A=25°C

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Forward Voltage	V _{F1}	I _F = 5mA	0.62	0.72	V
	V _{F2}	I _F = 10mA		0.855	
	V _{F3}	I _F = 100mA		1.0	
	V _{F4}	I _F = 150mA		1.25	
Reverse current	I _{R1}	V _R =75V		2.5	μA
	I _{R2}	V _R =20V		25	nA
Capacitance between terminals	C _T	V _R =0V, f=1MHz		4	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA; I _{rr} =0.1xI _R , R _L =100Ω		4	nS

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FIG.1-TYPICAL FORWARD CHARACTERISTICS

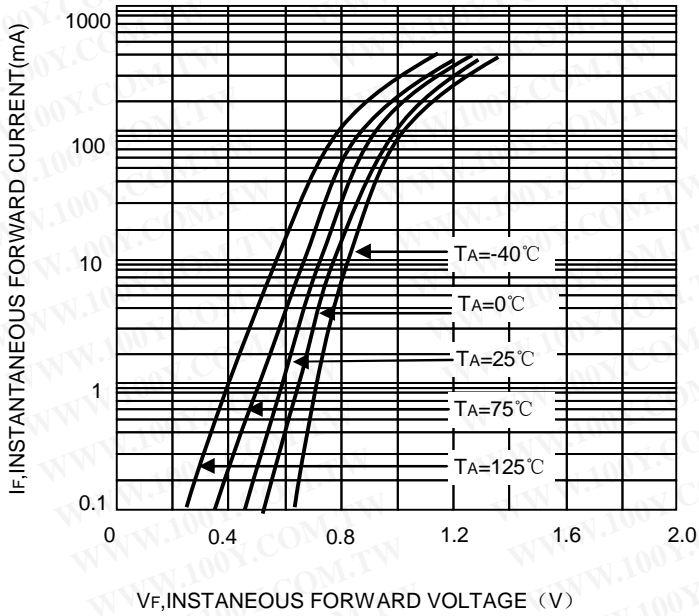


FIG.2-TYPICAL REVERSE CHARACTERISTICS

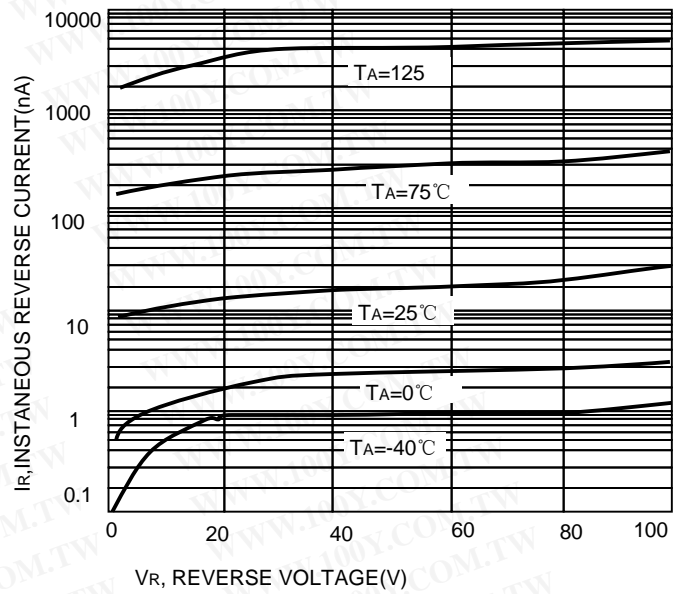


FIG.3-TYPICAL CAPACITANCE VS. REVERSE VOLTAGE

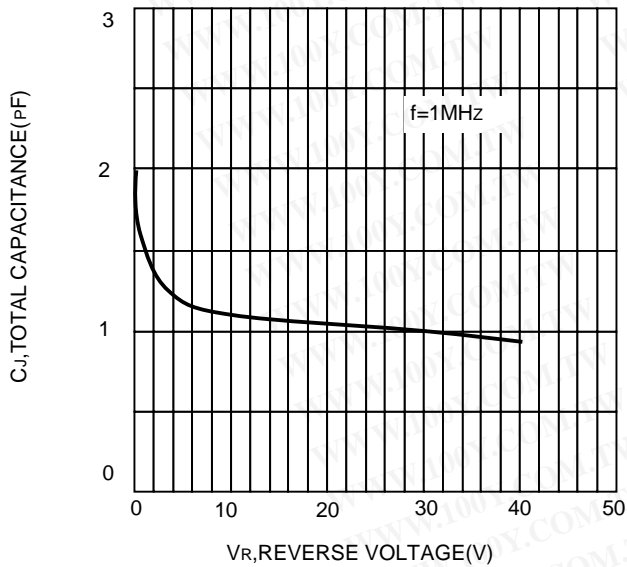


FIG.4-POWER DERATING CURVE, TOTAL PACKAGE

