

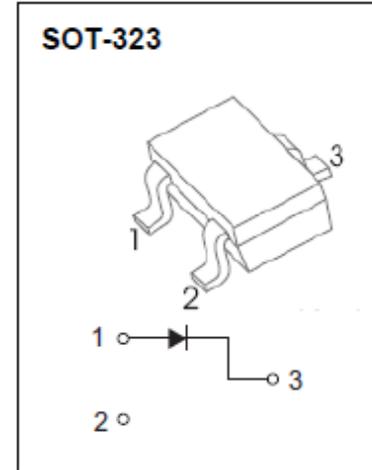


Plastic-Encapsulate Diodes Switching Diode

FEATURES

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

MARKING: KA3



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}	500	mA	
Average Rectified Output Current	I_O	250	mA	
Peak Forward Surge Current	I_{FSM}	@t=1.0μs	4	A
		@t =1.0s	1.5	
Power Dissipation	P_d	200	mW	
Thermal Resistance Junction to Ambient	$R_{θJA}$	625	°C/W	
Storage Temperature	T_{STG}	-55~+150	°C	

Electrical Characteristics @Ta=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
	V_{F3}	$I_F=100mA$		1	V
	V_{F4}	$I_F=150mA$		1.25	V
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}	$I_F=I_R=10mA$ $I_{rr}=0.1 I_{FR}, R_L=100Ω$		4	nS