

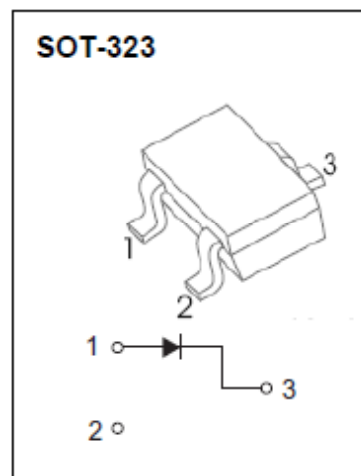
Plastic-Encapsulate Diodes

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℃			
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}	4	A
@t=1.0μs @t =1.0s		1.5	
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Storage Temperature	T_{STG}	-55~+150	℃

Electrical Characteristics @Ta=25℃					
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}	$I_F=I_R=10mA$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$		4	nS