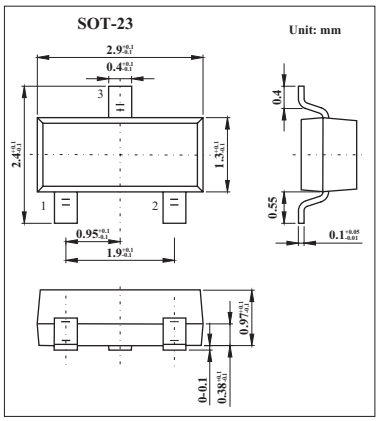
Surface Mount Schottky Barrier Diode

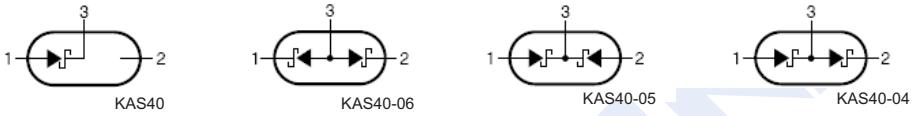
KAS40,-04,-05,-06

(BAS40,-04,-05,-06)



■ Features

- ●Low Forward Voltage Drop
- ●Fast Switching
- ●PN Junction Guard Ring for Transient and ESD Protection



■ Absolute Maximum Ratings Ta = 25℃

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	40	V
Forward Continuous Current	I_{FM}	200	mA
Power Dissipation	P_d	350	mW
Forward Surge Current @ t < 1.0s	I_{FSM}	600	mA
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	357	℃/W
Operating Temperature Range	T_j	-55 to +125	℃
Storage Temperature Range	T_{STG}	-65 to +150	℃

■ Electrical Characteristics Ta = 25℃

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)}$	I_R=10μA	40			V
Forward Voltage	V_F	I_F=1.0mA,tp＜300μs I_F=40mA,tp＜300μs			380 1000	mV
Reverse Leakage	I_R	V_R=30V,tp＜300μs		20	200	nA
Junction Capacitance	C_j	V_R=0V, f=1.0MHz		4.0	5.0	pF
Reverse Recover Time	T_{rr}	I_F = I_R = 10mA to I_R = 1.0mA,R_L = 100Ω			5.0	ns

■ Marking

NO.	KAS40	KAS40-04	KAS40-05	KAS40-06
Marking	K43	K44	K45	K46