

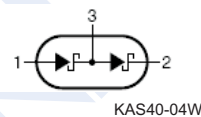
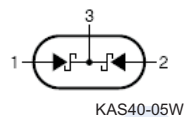
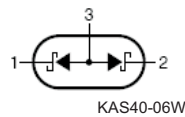
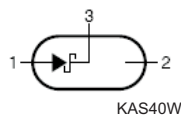
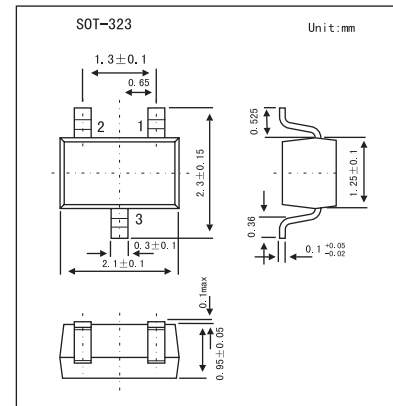
Surface Mount Schottky Barrier Diode

KAS40W,-04W,-05W,-06W

(BAS40W,-04W,-05W,-06W)

■ Features

- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring for Transient and ESD Protection



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	40	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	28	V
Forward Continuous Current	I _{FM}	200	mA
Forward Surge Current @ t = 1.0s	I _{FSM}	600	mA
Power Dissipation	P _d	200	mW
Thermal Resistance, Junction to Ambient Air	R _{θJA}	625	°C/W
Operating Temperature Range	T _j	-55 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V _{(BR)R}	I _R =10 μA	40			V
Forward Voltage	V _F	I _F =1.0mA, t _p <300 μs I _F =40mA, t _p <300 μs			380 1000	mV
Reverse Leakage	I _R	V _R =30V			200	nA
Junction Capacitance	C _j	V _R =0V, f=1.0MHz			5.0	pF
Reverse Recover Time	T _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 X I _R , R _L = 100 Ω			5.0	ns

■ Marking

NO.	KAS40W	KAS40-04W	KAS40-05W	KAS40-06W
Marking	K43	K44	K45	K46