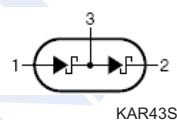
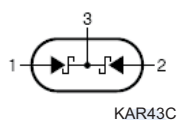
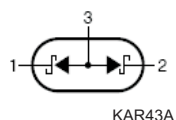
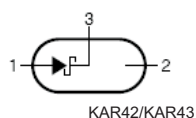
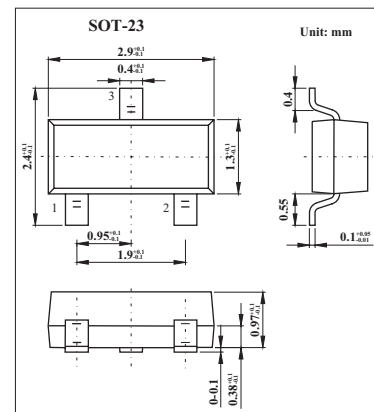


Small Signal Schottky Diodes

KAR42,KAR43,A,C,S
(BAR42,BAR43,A,C,S)

■ Features

- Power Dissipation: $P_D=250\text{mW}$

■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	30	V
Average Rectified Forward Current	I_F	100	mA
Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second	I_{FSM}	750	mA
Power Dissipation	P_D	250	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	500	$^\circ\text{C}/\text{W}$
Operating Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-65 to +150	$^\circ\text{C}$

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter		Symbol	Testconditons	Min	Typ	Max	Unit
Breakdown Voltage		V _R	T _J =25°C,I _R = 100 μ A	30			V
Forward Voltage	KAR42	V _F	T _J =25°C,I _F = 10mA		0.35	0.4	V
			T _J =25°C,I _F = 50 mA		0.5	0.65	
	KAR43		T _J =25°C,I _F = 2mA	0.26		0.33	
			T _J =25°C,I _F = 15 mA			0.45	
	ALL		T _J =25°C,I _F = 100 mA			1	
Reverse Current		I _R	T _J =25°C,V _R =25 V			500	nA
			T _J =100°C,V _R =25 V			100	μ A
Junction Capacitance		C _j	T _J =25°C,V _R = 1V, f = 1.0 MHz		7		pF
Reverse Recovery Time		t _{rr}	I _F = I _R = 10 mA, I _{RR} = 1mA,R _L = 100 Ω			5	ns

■ Marking

NO.	KAR42	KAR43	KAR43A	KAR43C	KAR43S
Marking	D94	D95	DB1	DB2	DA5