

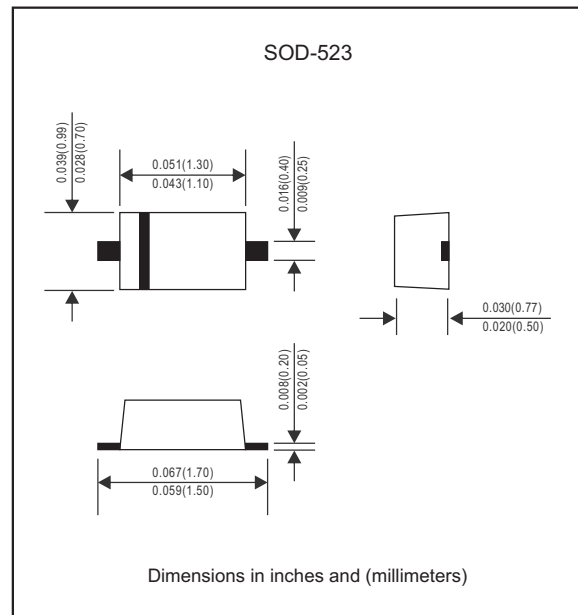
Features

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally
- Compliant to Halogen-free

Mechanical data

- Epoxy: UL94-V0 rated flame retardant
- Case : Molded plastic, SOD-523
- Polarity : Indicated by cathode band
- Mounting Position : Any

Package outline



Maximum ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
DC Reverse Voltage	V _R	70	V
Continuous Forward Current	I _F	70	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	0.1	A
Power Dissipation	P _D	150	mW
Operation Junction Temperature	T _J	125	°C
Storage Temperature	T _{stg}	-55~ +150	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Min	Typ	Max	Units
Reverse Breakdown Voltage	V _{BR}	I _R = 10μA	70			V
Forward Voltage	V _F	I _F = 1mA			0.41	V
		I _F = 15mA			1	
Peak Reverse Current	I _R	V _R = 50V			0.1	uA
Total Capacitance	C _j	V _R = 1V , f = 1MHz			2	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA , I _{rr} = 0.1×I _R , R _L = 100Ω			5	ns

Ratings and Characteristic Curves

Fig 1: P_D-T_a Curve

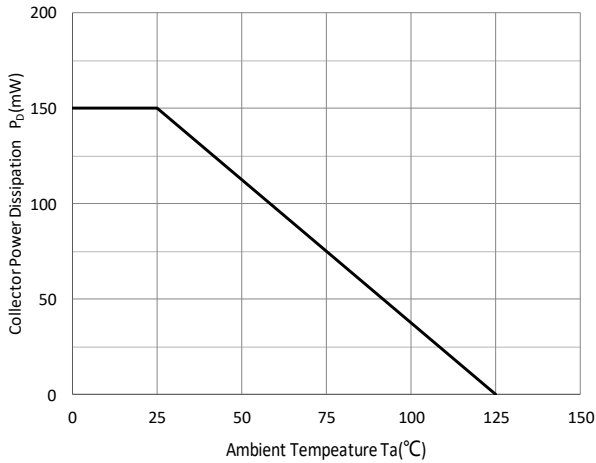


Fig 2: Capacitance Capability

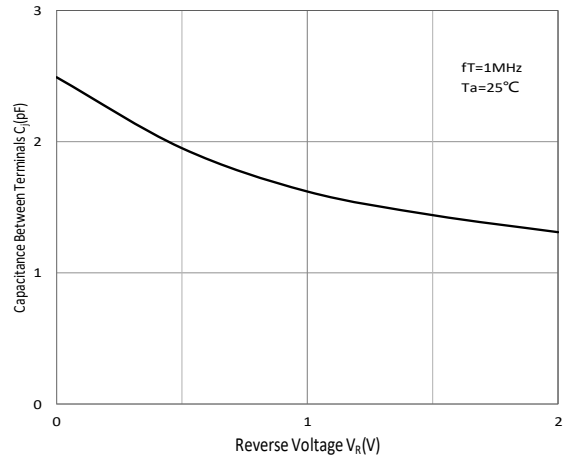


Fig 3: Typical Forward Characteristics

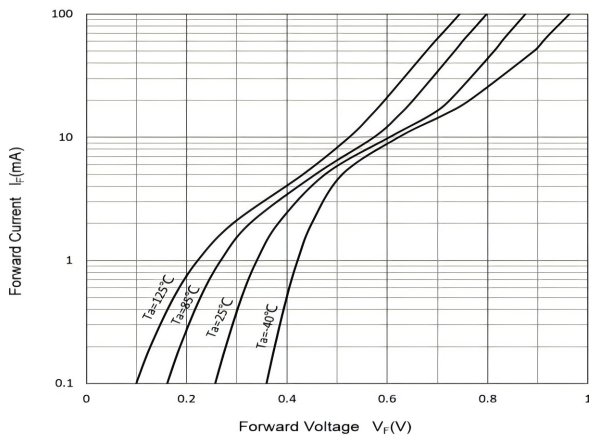
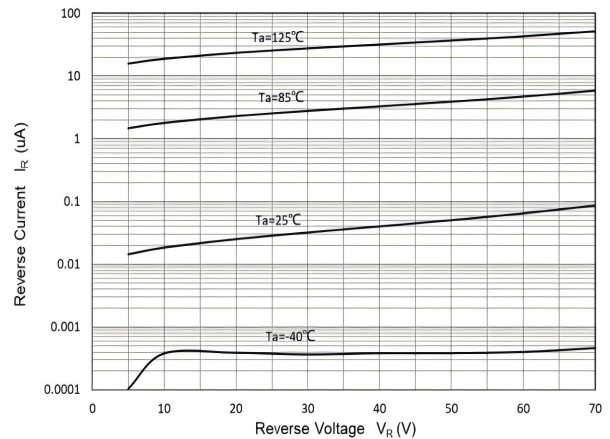




Fig 4: Typical Reverse Characteristics



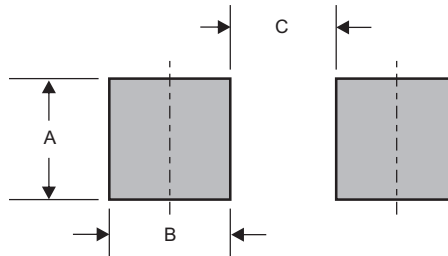
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
BAS70X	K73/73

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-523	0.032 (0.80)	0.024 (0.60)	0.044 (1.10)