

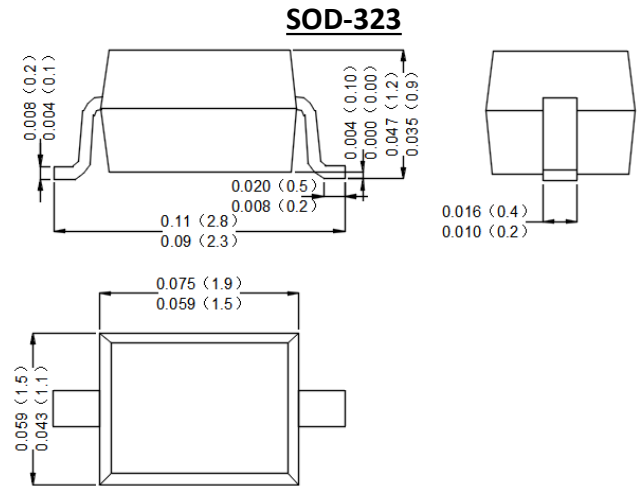


Features

- Medium current schottky rectifier diode
- For meter protection, bias isolation and clamping application.
- Available in lead free version.

Mechanical Data

- Case:Molded Plastic,SOD-323 .
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable per MIL-STD-750,Method-2026.
- Marking: **K0** .
- Mounting Position : Any.



Dimensions in inches and (millimeters)

Maximum Ratings

Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	V
Forward Continuous Current	I_F	500	mA
Repetitive Peak Forward Current	I_{FRM}	750	mA
Peak Forward Surge Current@ $t_p = 10ms$	I_{FSM}	2.5	A
Power Dissipation	P_D	600	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	°C/W
Operating Temperature Range,	T_j	150	°C
Storage Temperature Range	T_{STG}	-65 ~ +150	°C

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

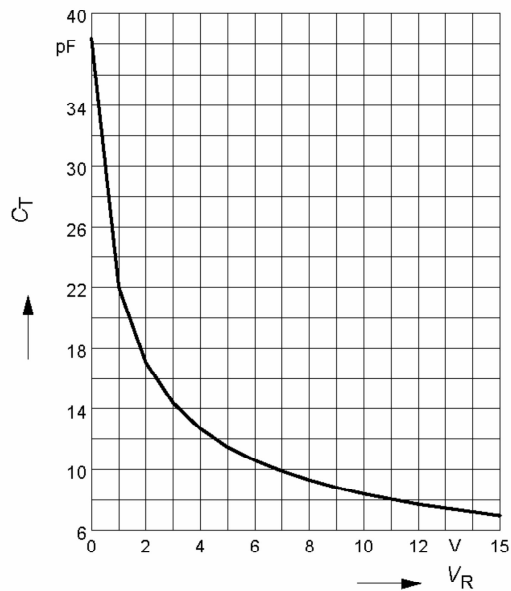
Characteristic	Symbol	Conditions	Max	Unit
Reverse Leakage Current	I_R	$V_R=30V$	50	uA
		$V_R=30V T_a=65^\circ C$	900	uA
Forward voltage	V_{F1}	$I_F=10mA$	0.4	V
	V_{F2}	$I_F=250mA$	0.7	V
Diode Capacitance	C_D	$V_R=10V, f=1MHz$	12	pF



Electrical Characteristics $T_a = 25^\circ\text{C}$ unless otherwise specified

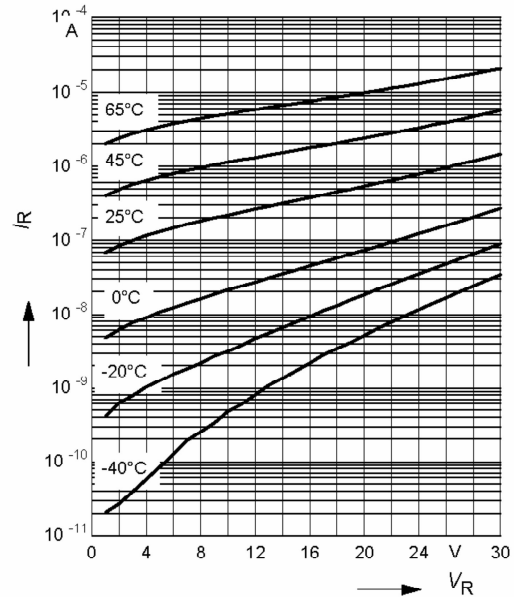
Diode capacitance $C_T = f(V_R)$

$f = 1\text{MHz}$



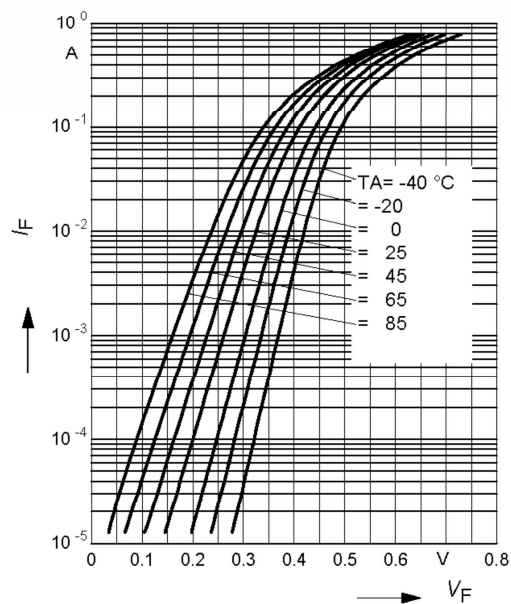
Reverse current $I_R = f(V_R)$

$T_A = \text{Parameter}$

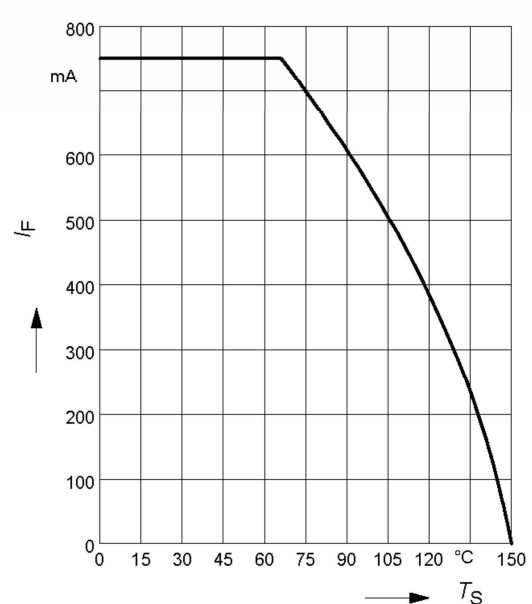


Forward current $I_F = f(V_F)$

$T_A = \text{Parameter}$



Forward current $I_F = f(T_S)$





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