

SILICON DIODE

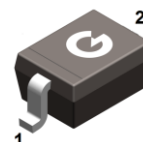
S05JS

FEATURES

- Ultra Low leakage current $I_R < 2\mu A$, $T_A = 125^\circ C$
- No solder used, Real fully in line with lead free
- High temperature soldering guaranteed: $260^\circ C/10s$ (Reflow)
- RoHS compliant with Halogen-free

HF

Cathode 1 Anode 2



SOD-323

APPLICATION

- CFL rectify circuit

ORDERING INFORMATION

Type No.	Marking	Package Code
S05JS	S03M	SOD-323

MAXIMUM RATING (operating temperature range applies unless otherwise specified)

Symbol	Parameter	Value	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	600	V
V_{RMS}	RMS Voltage	420	V
V_{DC}	DC Blocking Voltage	600	V
$I_{F(AV)}$	Average Forward Rectified Current @ $T_A = 25^\circ C$	0.5	A
I_{FSM}	Peak Forward Surge Current 8.3ms Single Half Sine-wave	1	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance	357	$^\circ C/W$
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	$^\circ C$

ELECTRICAL CHARACTERISTICS @ $T_A = 25^\circ C$ unless otherwise specified

Symbol	Parameter	Test conditions	MIN	TYP	MAX	Unit
I_R	Reverse Current	$V_{RM} = V_{RRM}, T_A = 25^\circ C$			0.5	μA
		$V_{RM} = V_{RRM}, T_A = 125^\circ C$			50	
V_F	Forward Voltage	$I_F = 0.4A, T_A = 25^\circ C$			1.0	V
t_{rr}	Reverse Recovery Time	$I_F = 0.5A, I_R = 1A, I_{rr} = 0.25A$	500			ns

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TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

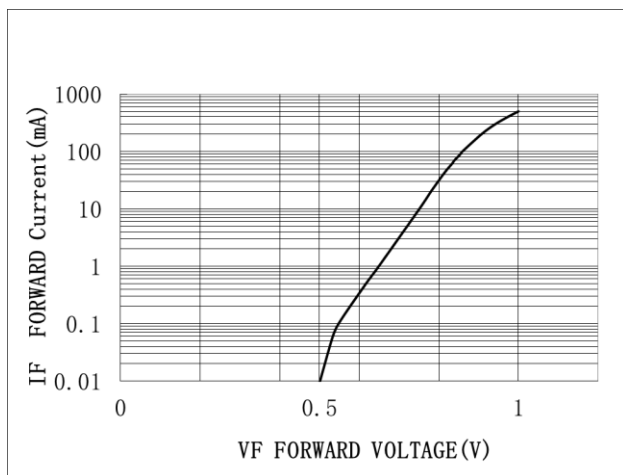


Fig1 Forward characteristics

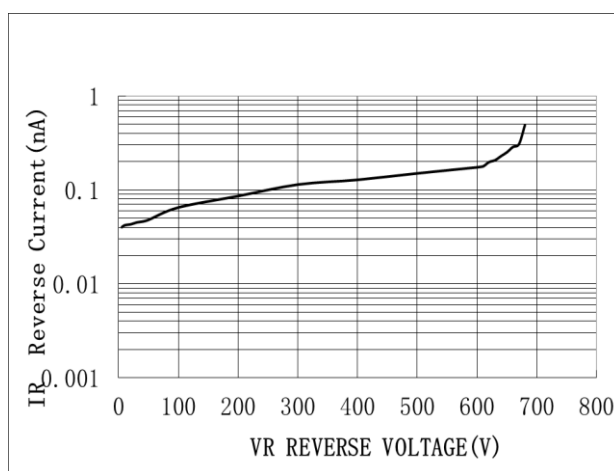


Fig2 Reverse characteristics

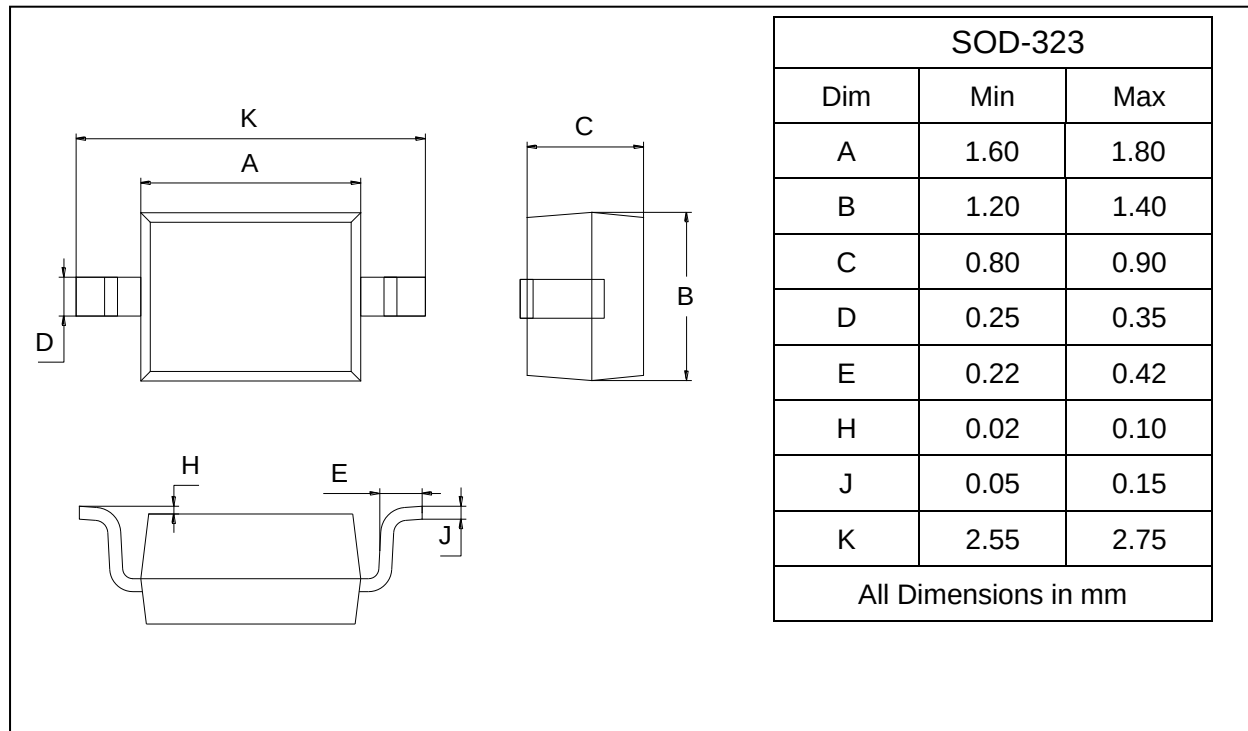
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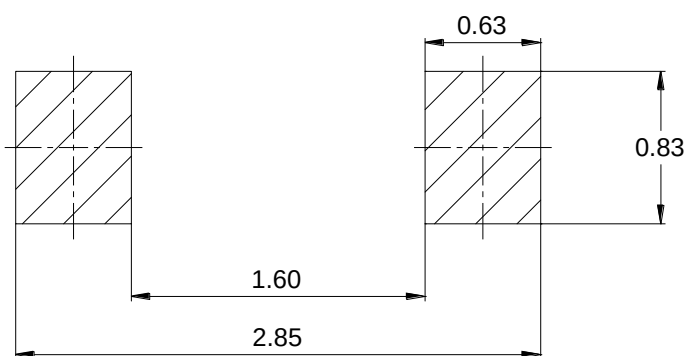
PACKAGE OUTLINE

Plastic surface mounted package

SOD-323



SOLDERING FOOTPRINT



Unit: mm

PACKAGE INFORMATION

Device	Package	Shipping
S05JS	SOD-323	3000 pcs / Tape & Reel