

US05AWS THRU US05MWS

Features

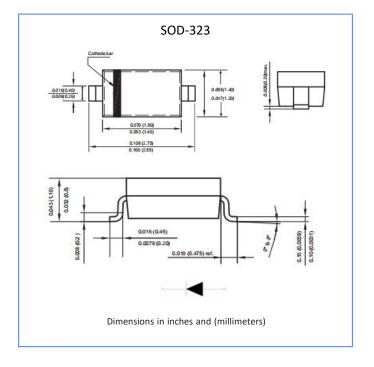
- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

Case:SOD-323

Terminals: Solderable per MIL-STD-750, Method 20

Approx. .Weight : 0.00 19 ounce, 0.0548 grams



Absolute Maximum Ratings And Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

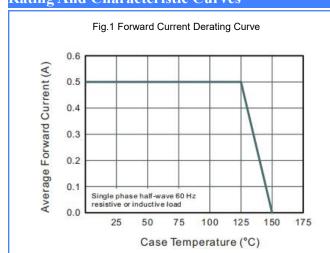
Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

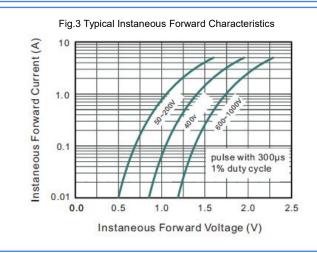
Parameter	Symbols	US05AWS	US05BWS	US05DWS	US05GWS	US05JWS	US05KWS	US05MWS	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at Tc = 125 °C	I _{F(AV)}	0.5					А		
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	lfsm	15					А		
Maximum Instantaneous Forward Voltage at 1 A	VF	1.0 1.30 1.65					1.65	V	
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	lR	5 100					μ A		
Maximum Reverse Recovery Time ⁽¹⁾	trr	50 75					ns		
Typical Junction Capacitance (2)	Cj	8					pF		
Typical Thermal Resistance ⁽³⁾	Reja	85					°C/W		
Operating and Storage Temperature Range	T _j , T _{stg}	-55 ~ +1 50					°C		

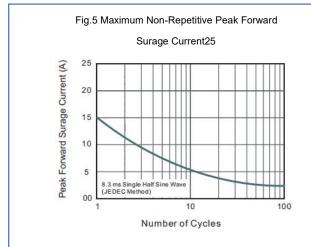
- (1) Measured with IF = 0.5 A, IR = 1 A, Irr = 0.25 A
- (2) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (3) P.C.B. mounted with 0.2" X 0.2" (5 X 5 mm) copper pad areas

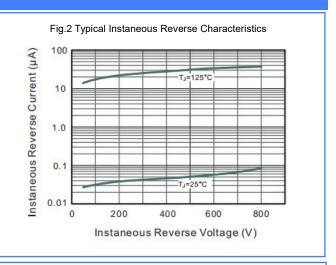
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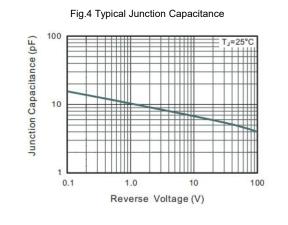
Rating And Characteristic Curves



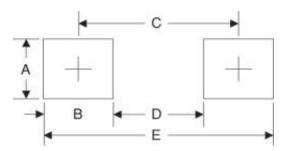








Suggested Pad Layout



Symbol	Unit (mm)	Unit (inch)
А	1.2	0.047
В	1.2	0.047
С	3.6	0.141
D	1.4	0.055
E	3.8	0.149