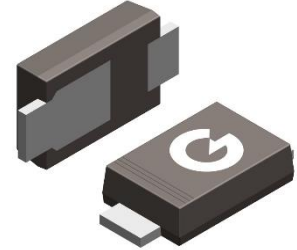


Schottky Barrier Rectifier

TSS20100HE

Features

- Metal silicon junction, majority carrier conduction
- High forward surge current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C @ 10s
- Robust guarding for over voltage protection
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 Standards



Mechanical Data

- Case: SOD-323HE molded plastic
- Molding compound: UL flammability classification rating 94V-0
- Terminals: Matte tin plated leads; solderable per J-STD-002 and JESD22-B102
- Polarity: Color band denotes cathode end

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

Parameter	Symbol	TSS20100HE	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
RMS Reverse Voltage	V _{RMS}	70	V
DC Blocking Voltage	V _{DC}	100	V
Average Forward Output Current	I _{F_AV}	2.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	I _{FSM}	35	A

Thermal Characteristics

Parameter	Symbol	TSS20100HE	Unit
Typical Thermal Resistance *1	R _{θJA}	88	°C/W
	R _{θJC}	35	
	R _{θJL}	22	
Operating Junction Temperature Range	T _J	-55 ~ +150	°C
Storage Temperature Range	T _{STG}	-55 ~ +150	°C

Note *1: Device mounted on p.c.b. with 2.2cm x 1.7 cm x 1mm copper pad area

Schottky Barrier Rectifier

TSS20100HE

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test Conditions		Typ.	Max.	Unit
Instantaneous Forward Voltage* ¹	V_F	$I_F = 2.0\text{A}$	@ $T_A = 25^\circ\text{C}$	-	0.8	V
Reverse Current* ²	I_R	Rated V_R	@ $T_J = 25^\circ\text{C}$	-	100	μA
			@ $T_J = 100^\circ\text{C}$	-	10	mA

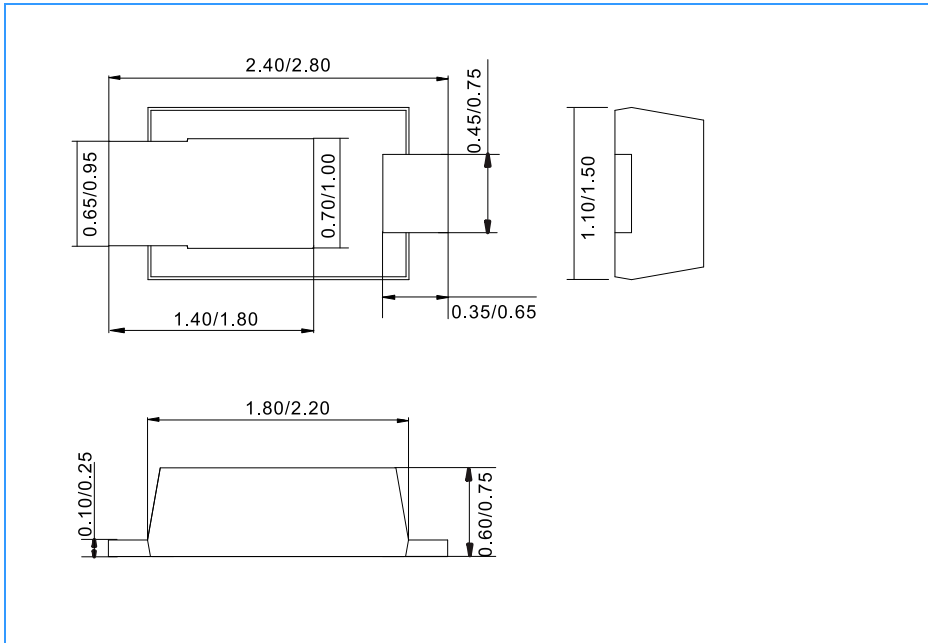
Note*¹: Pulse test: 300us pulse width, 1 % duty cycle

Note*²: Pulse test: Pulse width 40ms

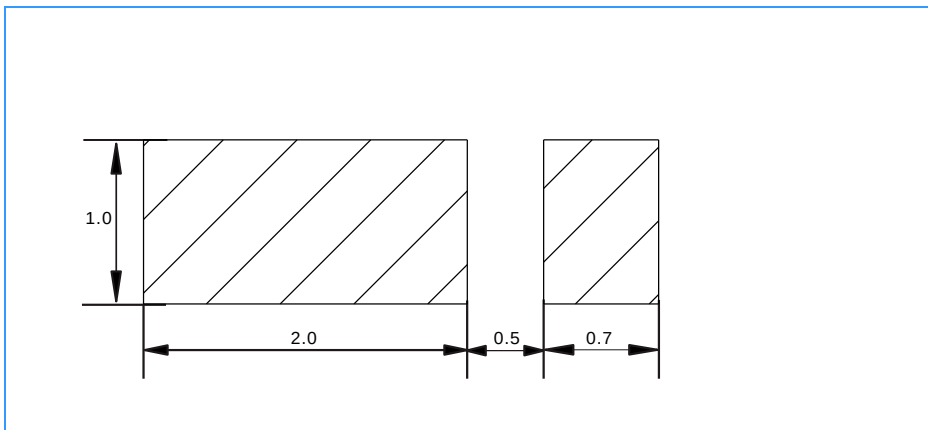
Schottky Barrier Rectifier

TSS20100HE

Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



Ordering Information

Part Number	Marking	Package
TSS20100HE	2A	SOD-323HE