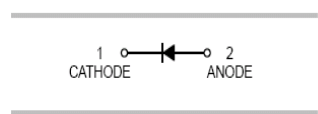


### Features

- Low reverse current
- Low forward voltage
- High reliability

HF



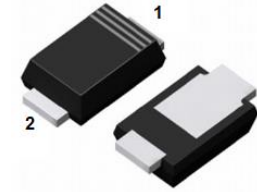
1 CATHODE 2 ANODE

### Application

- For general purpose applications

### Mechanical Data

- Case: SOD-323-T
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208



SOD-323-T

### Ordering Information

Part Number	Package	Shipping Quantity	Marking Code
MBR140S-T	SOD-323-T	3000 pcs / Tape & Reel	L4FS

### Maximum Ratings (@ T<sub>A</sub> = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
RMS Reverse Voltage	V <sub>RMS</sub>	28	V
Maximum Average Forward Output Current	I <sub>F(AV)</sub>	1	A
Peak Forward Surge Current (8.3ms single half sine-wave)	I <sub>FSM</sub>	15	A

### Thermal Characteristics

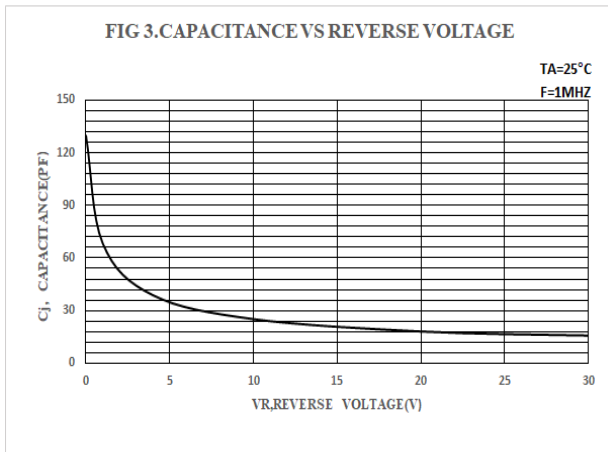
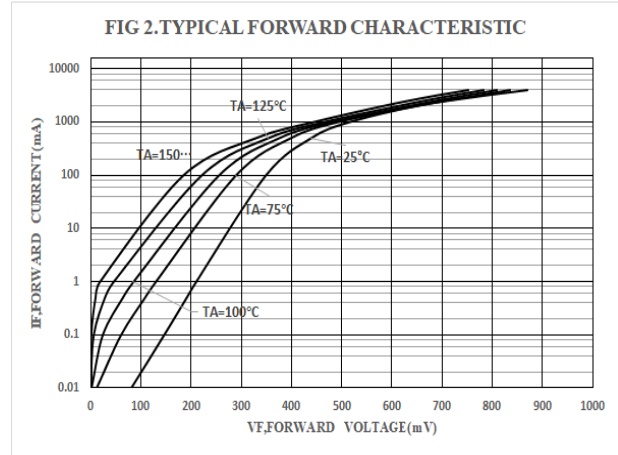
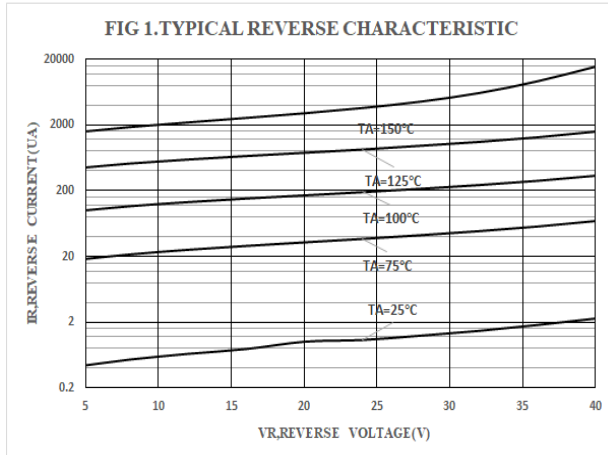
Parameter	Symbol	Value	Unit
Power Dissipation	P <sub>D</sub>	500	mW
Thermal Resistance Junction-to-Air *1	R <sub>θJA</sub>	250	°C/W
Operating junction Temperature	T <sub>J</sub>	-55 ~ +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 ~ +150	°C

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

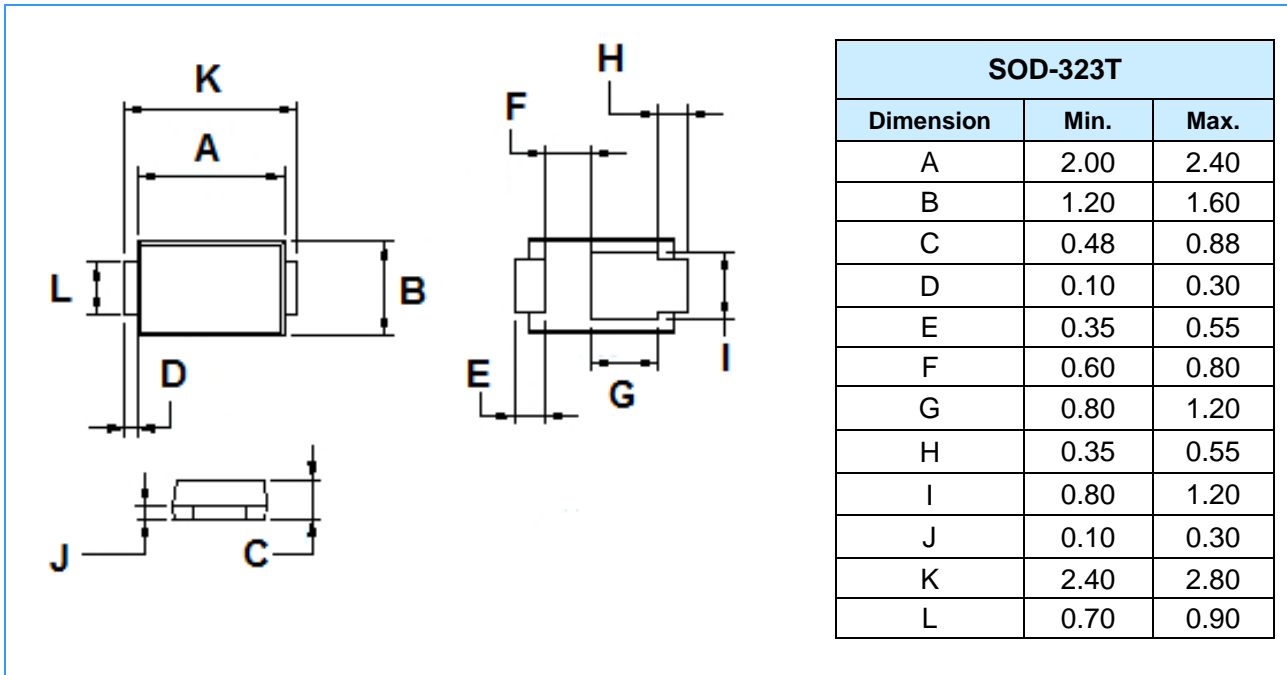
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward Voltage	$V_F$	$I_F = 0.1\text{A}$	-	-	0.40	V
		$I_F = 1\text{A}$	-	-	0.56	V
		$I_F = 3\text{A}$	-	-	0.85	V
Maximum Peak Reverse Current	$I_R$	$V_R = 20\text{V}$	-	-	0.15	mA
		$V_R = 40\text{V}$	-	-	0.50	mA
Typical Junction Capacitance	$C_J$	$V_R = 4\text{V}, f = 1\text{MHz}$	-	39	50	pF

Note 1: The data tested by surface mounted on FR-4 board with recommended pad layout

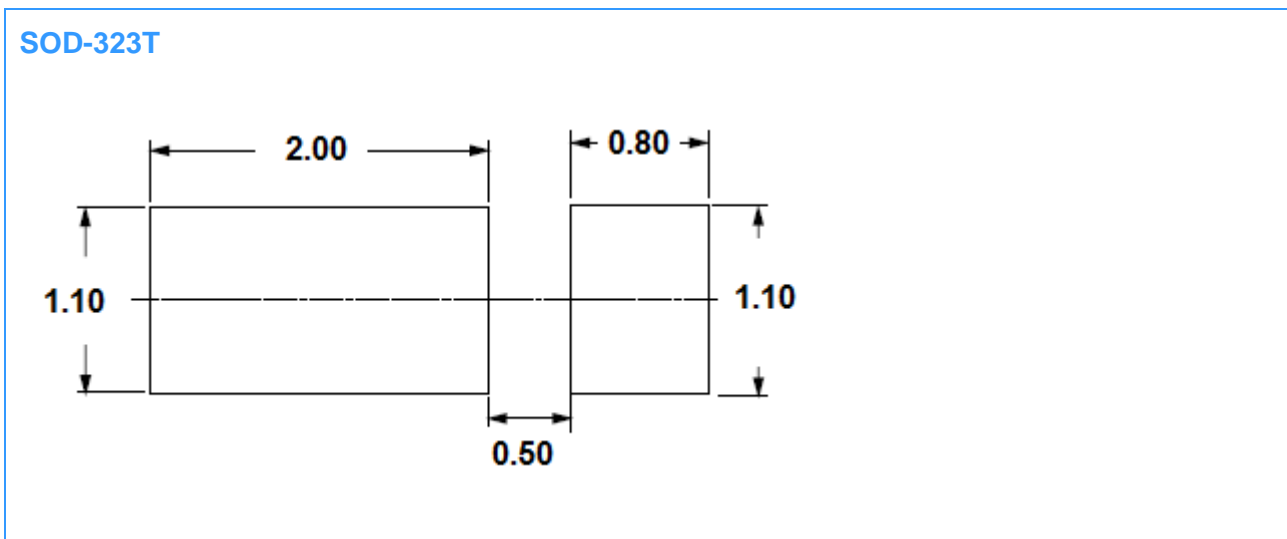
### Ratings and Characteristic Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)



Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



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