

**SOT-723 Plastic-Encapsulate Diodes**

SWITCHING DIODE

**FEATURES**

- Ultra Small Surface Mounting Type
- Ultra High Speed Switching Applications
- High Reliability
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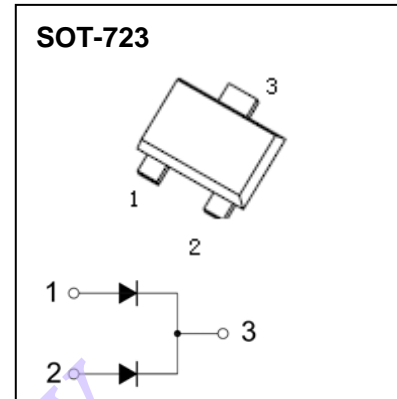
**MARKING: N**

**MAXIMUM RATINGS ( T<sub>a</sub>=25°C unless otherwise noted )**

Symbol	Parameter	Value	Unit
V <sub>RRM</sub>	Peak Reverse Voltage	80	V
V <sub>RWM</sub>	Working Peak Reverse Voltage	80	V
V <sub>R(RMS)</sub>	RMS Reverse Voltage	56	V
I <sub>O</sub>	Continuous Forward Current	100	mA
I <sub>FM</sub>	Peak Forward Current	300	mA
I <sub>FSM</sub>	Non-Repetitive Peak Forward Surge Current (t=1μs)	4	A
P <sub>D</sub>	Power Dissipation	150	mW
R <sub>θJA</sub>	Thermal Resistance from Junction to Ambient	833	°C/W
T <sub>j</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55~+150	°C

**ELECTRICAL CHARACTERISTICS(T<sub>a</sub>=25°C unless otherwise specified)**

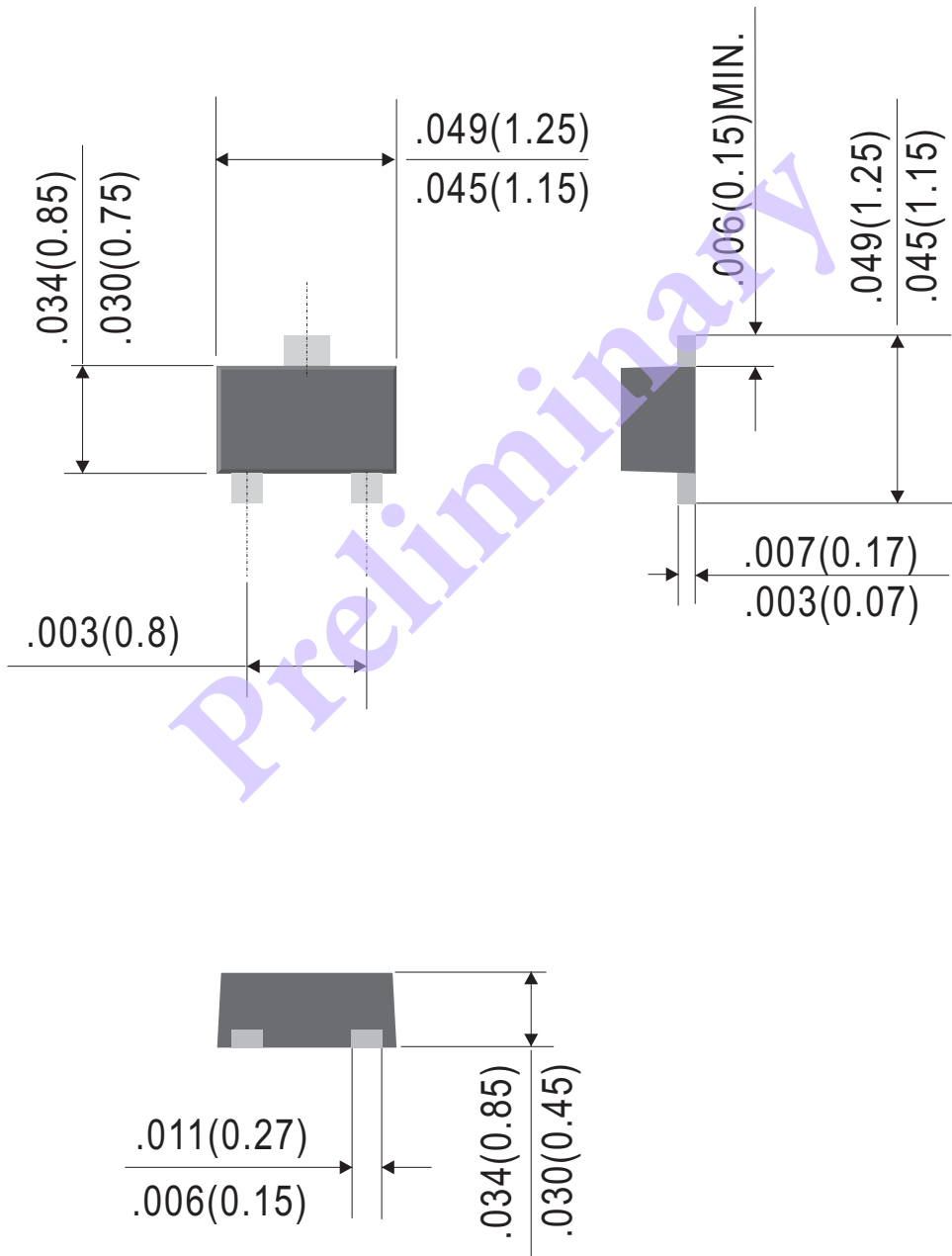
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100uA	80			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> =70V			0.1	μA
Forward voltage	V <sub>F</sub>	I <sub>F</sub> =100mA			1.2	V
Total capacitance	C <sub>tot</sub>	V <sub>R</sub> =6V,f=1MHz			3.5	pF
Reverse recovery time	t <sub>rr</sub>	I <sub>F</sub> = I <sub>R</sub> =5mA, V <sub>R</sub> =6V,R <sub>L</sub> =50 Ω			4	ns



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Outline Drawing

SOT-723



Dimensions in inches and (millimeters)