



SURFACE MOUNT SWITCHING DIODE

This device is an extremely fast switching diode housed in the ultra-small SOD-723 package. Ideal for applications

FEATURES

- Extremely fast reverse recovery time to reduce switching losses
- Very low capacitance for reduced insertion losses
- Reverse voltage rating of 80V
- Also available in lead-free plating (100% matte tin finish)
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

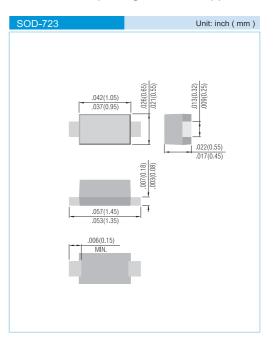
Case: SOD-723, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: See Diagram Below Approx.Weight: 0.00077 gram

Marking: BE

Polarity: Color band cathode



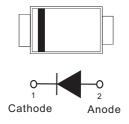
MAXIMUM RATINGS TJ = 25°C UNLESS OTHERWISE NOTED

PARAMETER		LIMITS	UNITS
Peak Reverse Voltage	VRM	90	V
Continuous Reverse Voltage	VR	80	٧
Continuous Forward Current	lF	225	mA
Non-repetitive Peak Forward Current , t = 0.01ms, Square Wave	I FSM	4	Α
Total Power Dissipation (Note1)	Ртот	200	mW
Operating Junction and Storage Temperature Range	Т _J ,Тsтg	-55 to 150	°C

Note 1. FR-4 Board 70 x 60 x 1mm

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	LIMITS	UNITS
Thermal Resistance, Junction to Ambient	RθJA	625	°C / W



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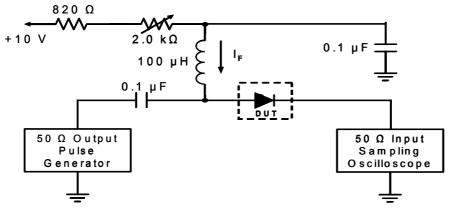




ELECTRICAL CHARACTERISTICS TJ = 25°C UNLESS OTHERWISE NOTED

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Forward Voltage (Note 2)	VF	I F = 100mA	-	-	1	V
Reverse Leakage Current	IR	VR = 80V	-	-	0.1	μА
Junction Capacitnace	Съ	0.5Vdc Bias, f = 1MHz	-	0.7	3	pF
Reverse Recovery Time (See Figure 1)	TRR	IF = 10mA, IR = 10mA RL = 100 Ohms; measured at I Rrec = 1mA	-	-	4.0	ns

Note 2. Short duration pulse test to avoid self-heating effect



Notes: 1. A $2.0k\Omega$ variable resistor adjusted for a forward current (I_F) to 10mA 2. Input pulse is adjusted to I_{R(peak)} is equal to 10mA

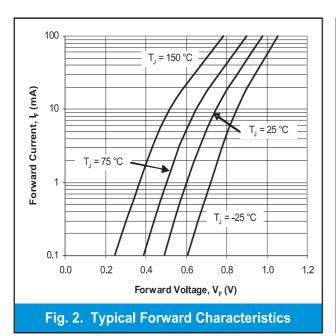
Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT

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TYPICAL CHARACTERISTIC CURVES



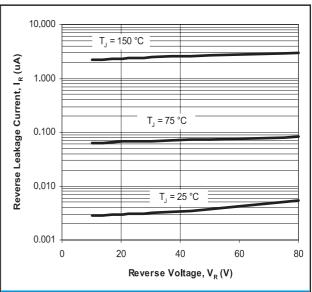
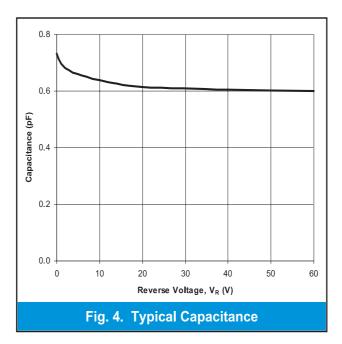


Fig. 3. Typical Reverse Characteristics

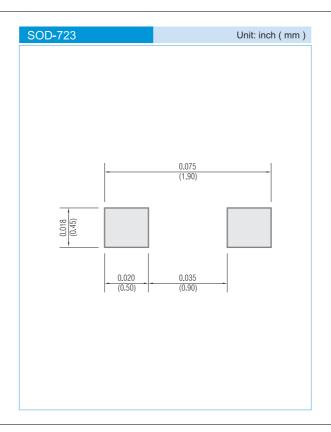


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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 8K per 7" plastic Reel

LEGAL STATEMENT

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