

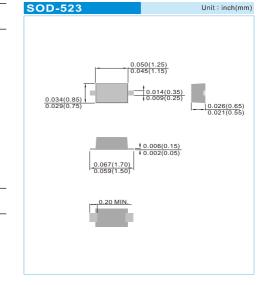


SURFACE MOUNT SWITCHING DIODE

This device is an extremely fast switching diode housed in the ultra-small SOD-523 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)
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std..(Halogen Free)



MECHANICAL DATA

- Case: SOD-523, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end
- Approx.Weight: 0.0014 ounces, 0.0001 grams
- Marking: 14

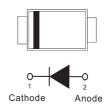
MAXIMUM RATINGS TJ = 25°C UNLESS OTHERWISE NOTED

PARAMETER	SYMBOL	LIMITS	UNITS
Peak Reverse Voltage	VRM	90	V
Continuous Reverse Voltage	VR	80	V
Continuous Forward Current	lF	225	mA
Non-repetitive Peak Forward Current , t = 0.001ms, Square Wave	IFSM	4	Α
Total Power Dissipation (Note1)	P _{tot}	200	mW
Operating Junction and Storage Temperature Range	Т _J ,Тsтg	-55 to 150	°C

Note 1. FR-5 Board 1.0 x 0.75 x 0.062 in

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	LIMITS	UNITS
Thermal Resistance, Junction to Ambient	$R\theta_{JA}$	625	°C/W







ELECTRICAL CHARACTERISTICS TJ = 25°C UNLESS OTHERWISE NOTED

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Forward Voltage (Note 2)	VF	I F = 100mA	-	-	1.2	V
Reverse Leakage Current	IR	V _R = 80V	-	-	0.1	μΑ
Junction Capacitnace	Сп	0Vdc Bias, f = 1MHz	-	3	-	pF
Reverse Recovery Time (See Figure 1)	l LL	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

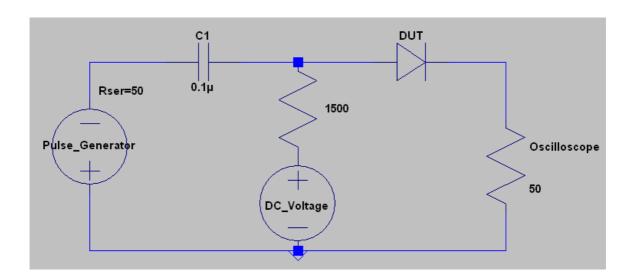


Figure 1. Reverse Recovery Time Equivalent Test Circuit





TYPICAL CHARACTERISTIC CURVES

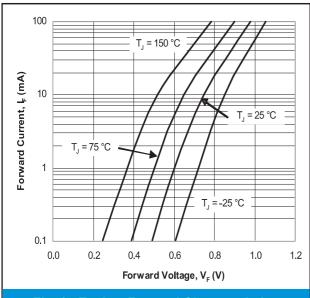


Fig. 2. Typical Forward Characteristics

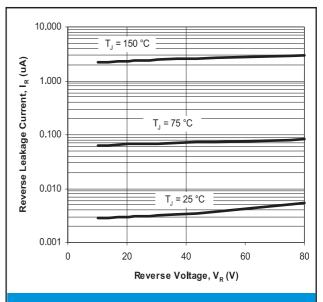
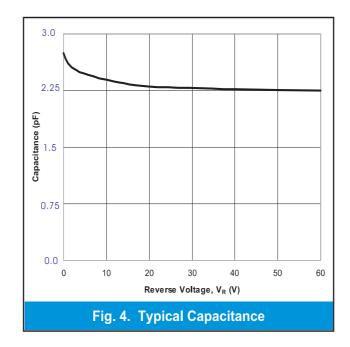


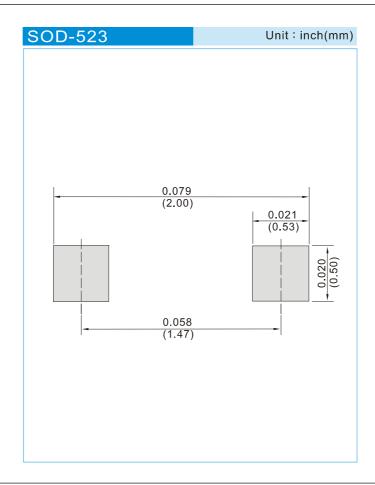
Fig. 3. Typical Reverse Characteristics







MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 5K per 7" plastic Reel





Part No_packing code_Version

1SS400_R1_00001 1SS400_R2_00001

For example :



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	s	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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