

1SS277WT

BAND-SWITCHING DIODE

Features

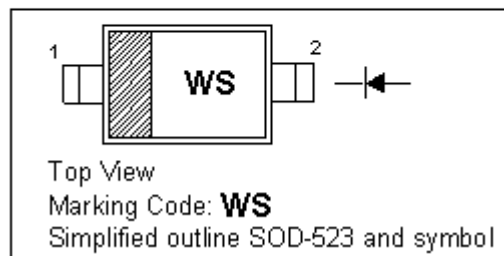
- Small plastic SMD package
- Continuous reverse voltage: max. 35V
- continuous forward current: max. 100mA
- Low diode capacitance: max. 1.2pF
- Low diode forward resistance : max. 0.7Ω .

Applications

- Low loss band switching in VHF television tuners.
- Surface mount band-switching circuits.

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings (T_j = 25°)

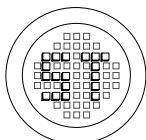
Parameter	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	35	V
Continuous Forward Current	I _F	100	mA
Power Dissipation T _s =90°	P _{tot}	715	mW
Junction Temperature	T _J	-65 to +175	°C
Storage Temperature Range	T _s	-65 to +175	°C

Characteristics at T_j = 25°

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Forward Voltage	I _F = 10mA	V _F	-	-	1.0	V
Reverse Current	V _R = 25V	I _R	-	-	50	nA
	V _R = 20V; T _{amb} =75°		-	-	1	μA
Diode Forward Resistance	I _F = 2mA, f = 100MHz	r _D	-	-	0.7	Ω
Capacitance	f = 1MHz, V _R =6V	C _d	-	-	1.2	pF

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
Thermal resistance from junction to soldering-point	R _{thj-s}	85	K/w

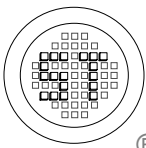
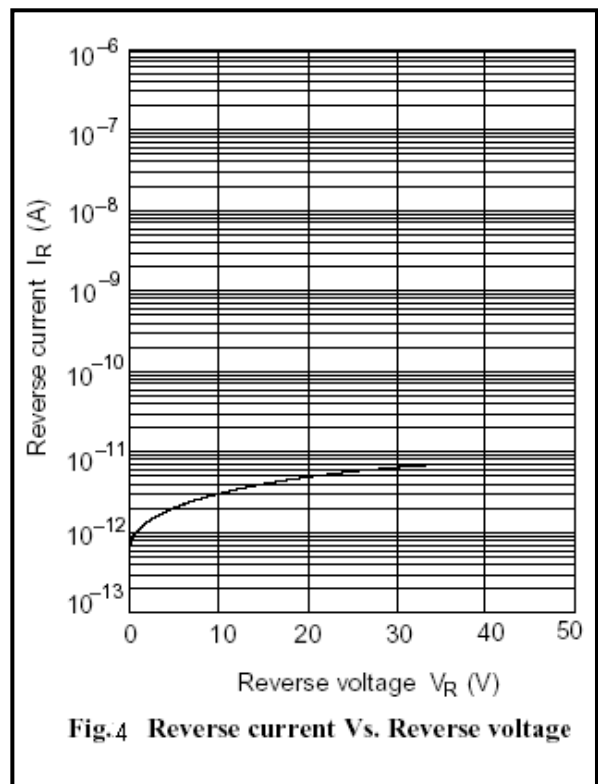
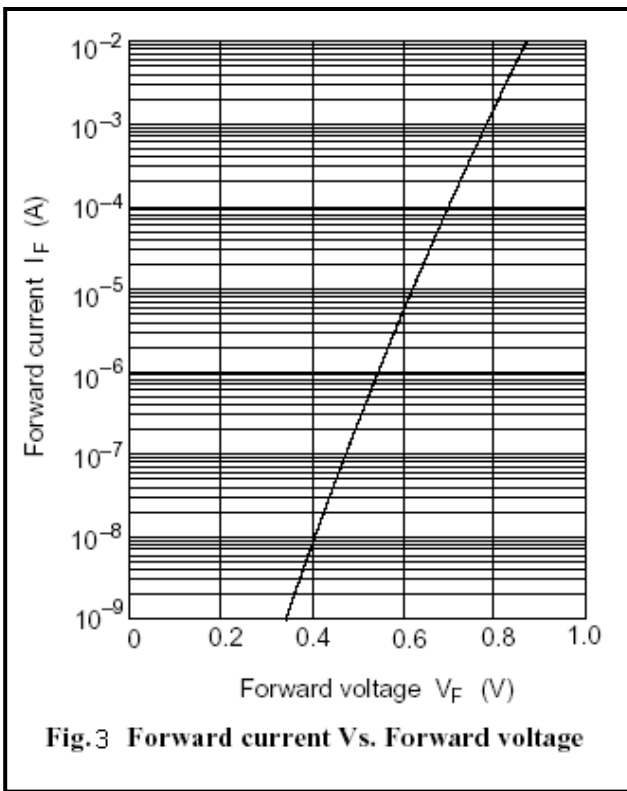
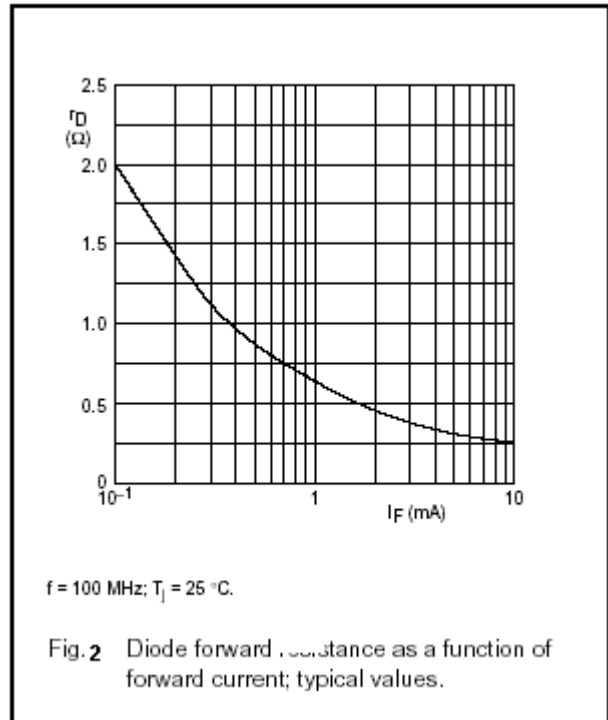
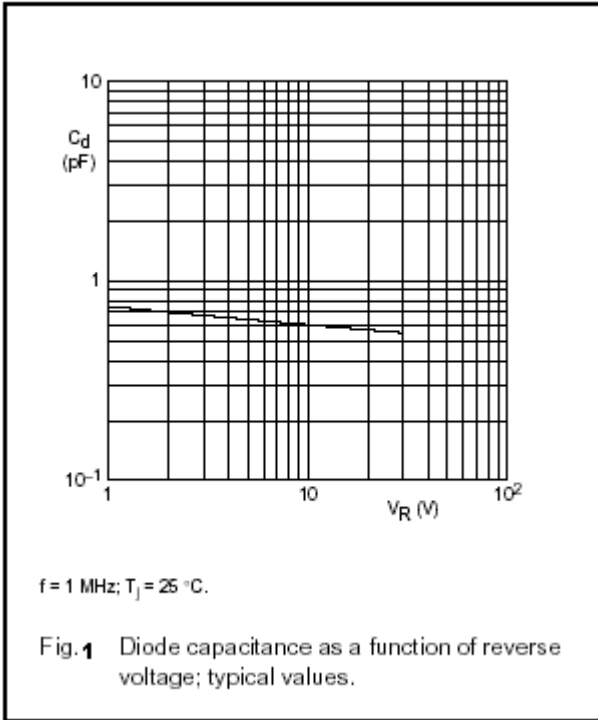


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SEMTECH ELECTRONICS LTD.

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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
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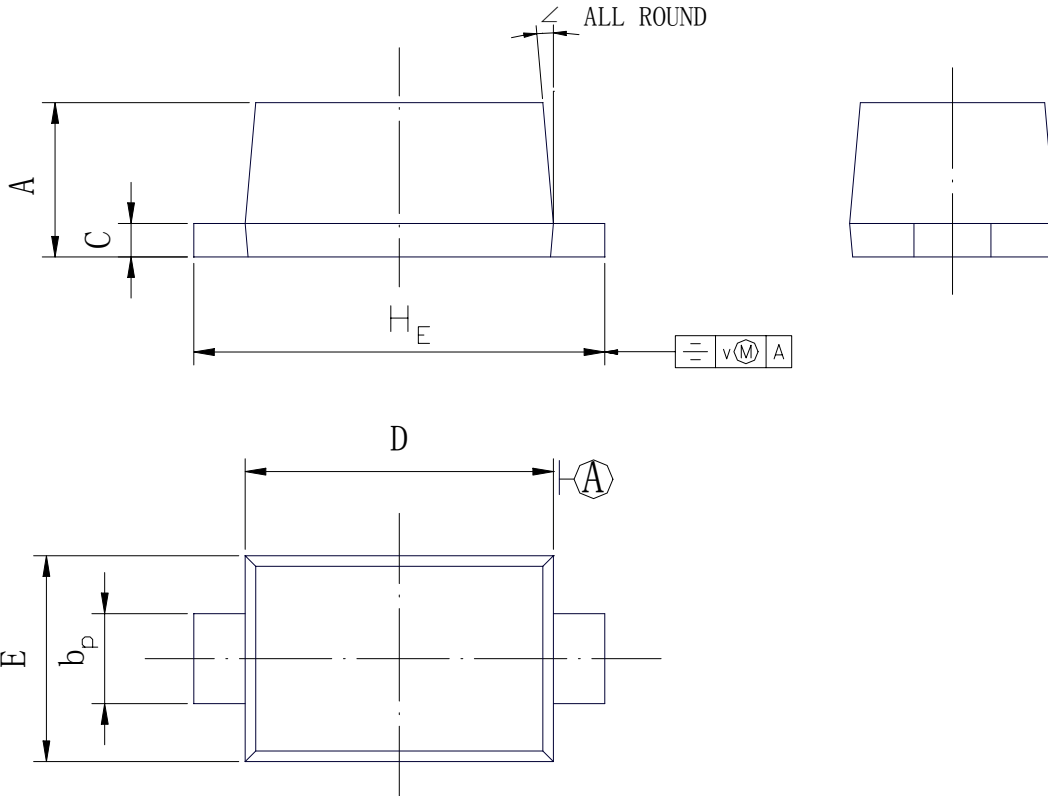
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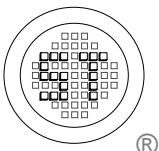
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



UNIT	A	b _p	C	D	E	H _E	v	∠
mm	0.70 0.60	0.4 0.3	0.135 0.127	1.25 1.15	0.85 0.75	1.65 1.55	0.1	5°



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