

1SS383T1G, 1SS383T2G

Preferred Device

Dual Schottky Diode

Dual 40 V, 300 mA Low V_F Schottky Diodes in 4-lead SC-82 package.

Features

- Low Forward Voltage: $V_F = 0.48$ V (typ) @ $I_F = 100$ mA
- Low Reverse Current: $I_R = 5$ μ A (max)
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

Rating	Symbol	Max	Unit
Continuous Reverse Voltage	V_R	40	V
Maximum Peak Forward Current*	I_{FM}	300	mA
Peak Forward Surge Current Pulse Width = 10 μ s	$I_{FM}(\text{surge})$	500	mA

*Both Devices Active

MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$)

Rating	Symbol	Max	Unit
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THERMAL CHARACTERISTICS

Characteristic (Both Junctions Heated)	Symbol	Max	Unit
Total Device Dissipation $T_A = 25^\circ\text{C}$ Derate above 25°C	P_D	200 (Note 1) 1.6 (Note 1)	mW mW/ $^\circ\text{C}$
Thermal Resistance Junction-to-Ambient	$R_{\theta JA}$	625 (Note 1)	$^\circ\text{C}/\text{W}$
Junction and Storage Temperature	T_J, T_{stg}	-55 to +150	$^\circ\text{C}$

1. FR-4 @ Minimum Pad.

ELECTRICAL CHARACTERISTICS

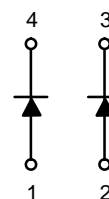
($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage ($I_F = 1.0$ mA) ($I_F = 10$ mA) ($I_F = 100$ mA)	V_F	— — —	280 360 540	— — 600	mV
Reverse Current ($V_R = 40$ V)	I_R	—	—	5	μ A
Capacitance ($V_R = 0$, $f = 1.0$ MHz)	C_D	—	—	25	pF



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SC-82
CASE 900AA

MARKING DIAGRAM



AE = Specific Device Code
D = Date Code

ORDERING INFORMATION

Device	Package	Shipping†
1SS383T1G	SC-82	4 mm pitch 3000/Tape & Reel
1SS383T2G	SC-82	4 mm pitch 3000/Tape & Reel

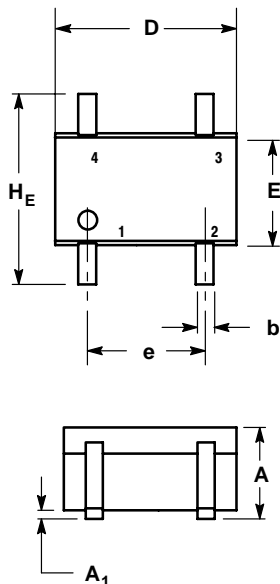
†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification Brochure, BRD8011/D.

Preferred devices are recommended choices for future use and best overall value.

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PACKAGE DIMENSIONS

SC-82, 4 LEAD, GULL WING CASE 900AA-01 ISSUE O




NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.80	0.90	1.00	0.032	0.035	0.04
A ₁	0	---	0.10	0	---	0.004
b	0.10	0.20	0.30	0.004	0.008	0.012
C	0.10	0.18	0.25	0.004	0.007	0.010
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.15	1.25	1.35	0.045	0.049	0.053
e	1.30 BSC			0.051 BSC		
H _E	2.00	2.10	2.20	0.079	0.083	0.087
L	0.10	0.20	0.30	0.004	0.008	0.012

STYLE 1:

- PIN 1. ANODE 1
- ANODE 2
- CATHODE 2
- CATHODE 1

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