

PRIMARY CHARACTERISTICS

V_{RRM}	30V
I_O	100mA
$V_F@I_F=10mA$	0.35V
$T_{J,Max}$	125°C

SCHEMATIC DIAGRAM SOD-923 PACKAGE



(Top View)



FEATURES

- Ultra Small mold type. SOD-923
- Low IR
- High reliability.
- Low current rectification
- Qualified max reflow temperature:260°C

MECHANICAL DATA

- Case : Molded plastic,SOD-923
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant
- Mounting position: Any
- Device meets MSL 1 requirements
- Pure tin plating: 7 ~ 17 um
- Pin flatness:≤3mil

Electrical characteristics per line@25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	0.27	0.31	V	I _F =1mA
Forward voltage	V _F	-	0.30	0.35	V	I _F =10mA
Forward voltage	V _F		0.36	0.40	V	I _F =20mA
Forward voltage	V _F	-	0.48	0.55	V	I _F =100mA
Reverse current	I _R	-	-	1.5	μA	V _R =10V

Absolute maximum rating@25°C

Parameter	Symbol	limits	Unit
Reverse voltage (DC)	V _{RM}	30	V
Average rectified forward current	I _o	100	mA
Forward current surge peak (60Hz 1cyc)	I _{FSM}	1.0	A
Operating Junction temperature Range	T _j	-55 to 125	°C
Storage temperature	T _{stg}	-40 to +125	°C



Typical Characteristics

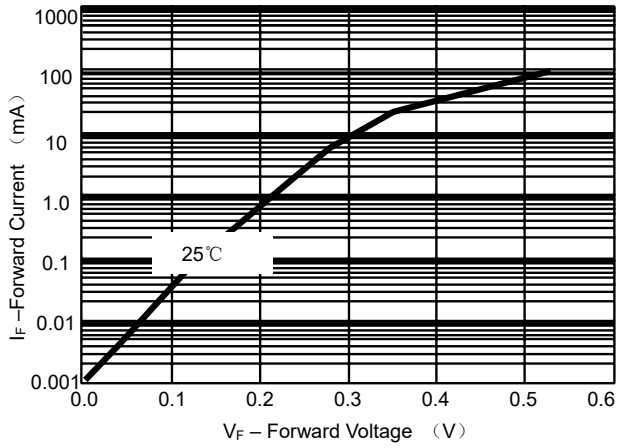


Fig 1. Forward Voltage

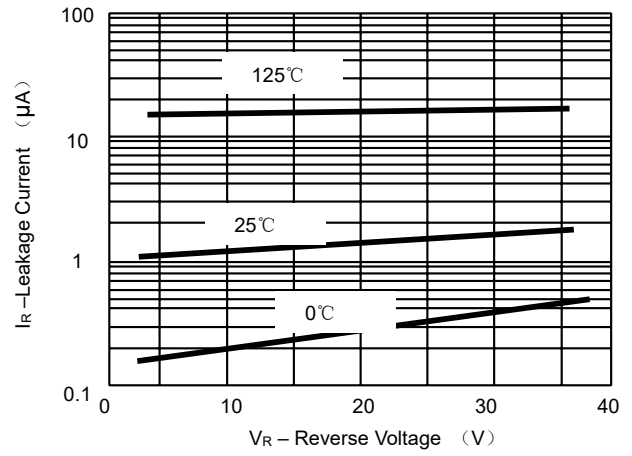


Fig 2. Leakage Current

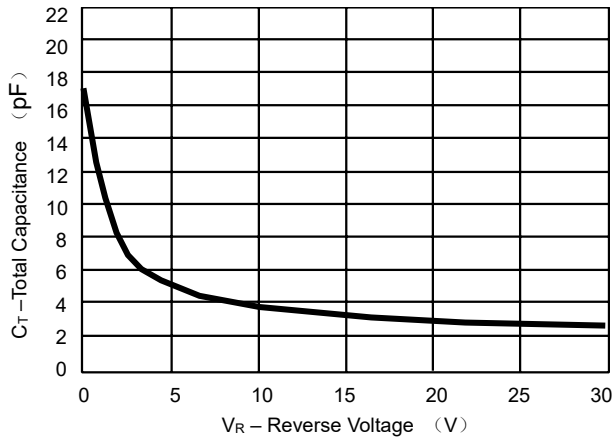
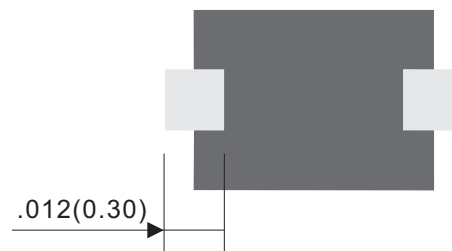
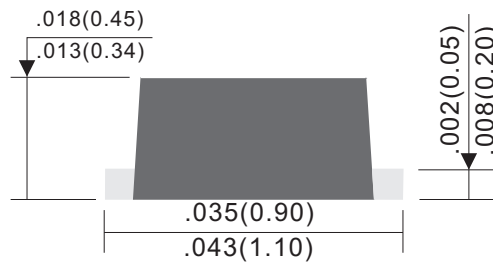
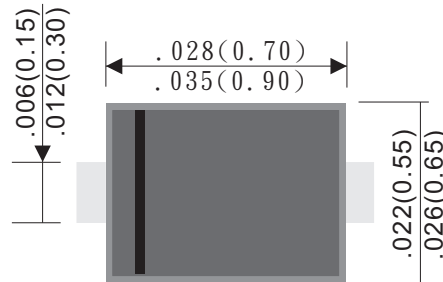


Fig 3. Total Capacitance



Outline Drawing

SOD-923



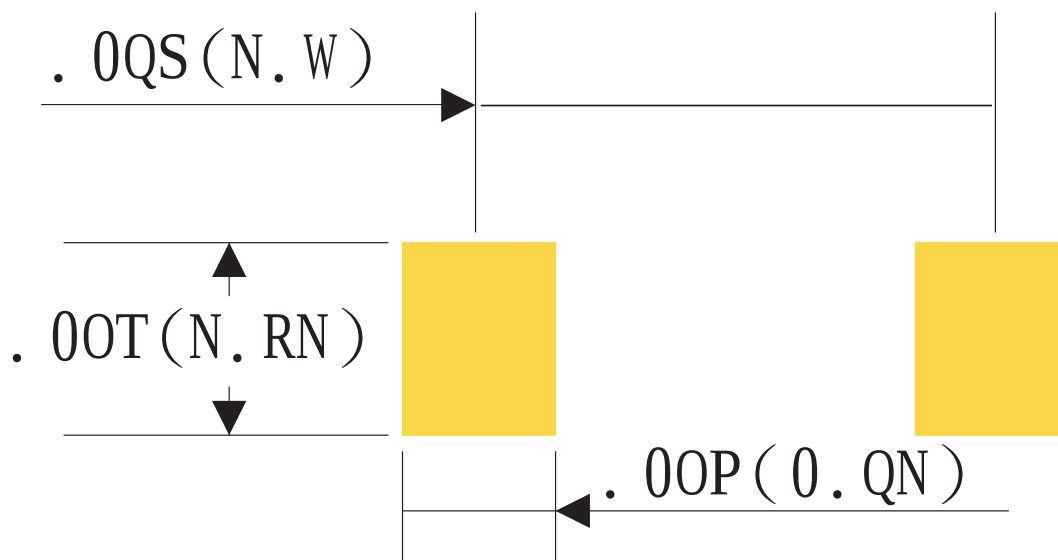
Dimensions in inches and (millimeters)

Rev.C



Suggested Soldering Pad Layout

SOD-923



Dimensions in inches and (millimeters)

RevB

Ordering Information:

Device PN	Marking	Packing
SCS751CS-30-T ⁽¹⁾ H ⁽²⁾ -WS ⁽³⁾	1D	Tape&Reel: 8 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" : Halogen free product for packing code suffix "H".

(3) All materials and products supplied comply with the U.S. Toxic Substances Control Act statement, PBT Chemicals.

(4) Willas brand abbreviation, Label Type does not display.

(5) There may be additional marking, which relates to the lot trace code information (data code and vendor code), the logo or the environmental category on the device.

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