



SOT-523 Plastic-Encapsulate Diodes

SCHOTTKY BARRIER DIODE

FEATURES:

Extra Small Power Mold Type

Low V_F

High Reliability

Pb-Free package is available

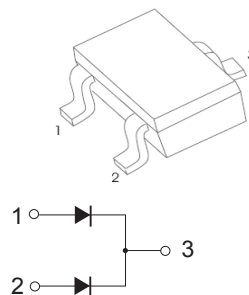
RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"

Moisture Sensitivity Level 1

MARKING: 3D

SOT-523



Maximum Ratings @Ta=25 °C

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	40	V
DC reverse voltage	V_R	40	V
Peak forward surge current	I_{FSM}	200	mA
Average forward current	I_O	30	mA
Power dissipation	P_D	150	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	667	°C/W
Operating temperature	T_J	-55~+125	°C
Storage temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)

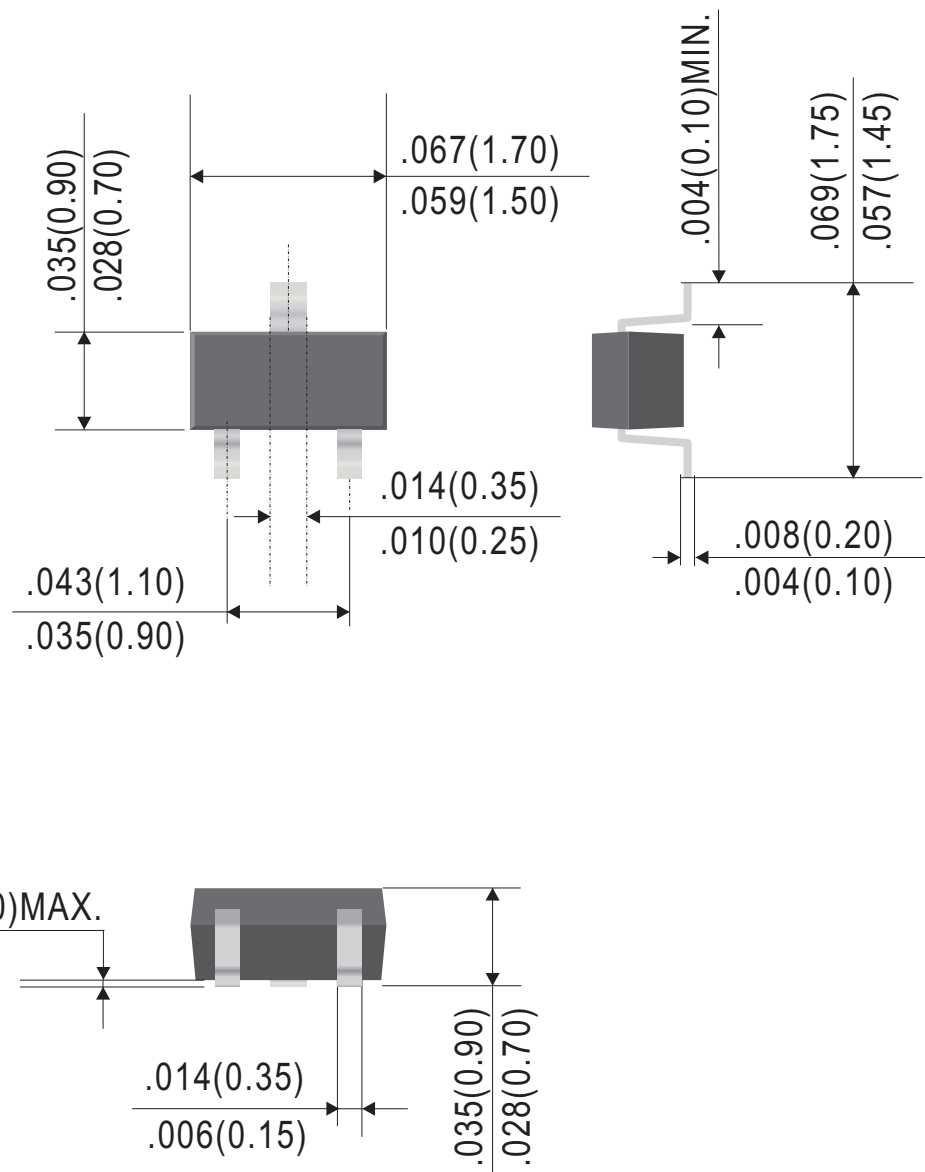
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage leakage current	I_R	$V_R=10V$			1	μA
Forward voltage	V_F	$I_F=1mA$			0.37	V
Capacitance between terminals	C_T	$V_R=1V, f=1MHz$		2.0		pF



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Outline Drawing

SOT-523



Dimensions in inches and (millimeters)

Rev.D



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Ordering Information:

Device PN	Packing
SCS715W -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 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"

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