



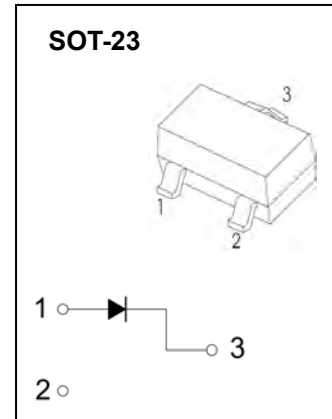
SOT-23 Plastic-Encapsulate Diodes

SCS411DS

SCHOTTKY BARRIER DIODE

FEATURES

- Small Surface Mounting Type
- Low Reverse Current and Low Forward Voltage
- 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: D3E

Maximum Ratings(Ta=25°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak repetitive reverse voltage	V_{RM}	40	V
RMS reverse voltage	$V_{R(RMS)}$	28	V
DC reverse voltage	V_R	20	V
Mean rectifying output current	I_O	500	mA
Peak forward surge current	I_{FSM}	3	A
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Operating temperature	T_j	-55~+125	°C
Storage temperature	T_{stg}	-55~+150	°C

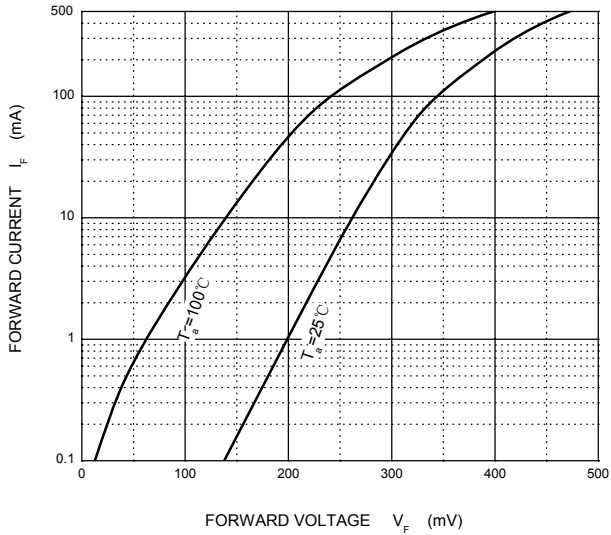
Electrical Ratings @Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Reverse breakdown voltage	V_R	20			V	$I_R=100\mu A$
Forward voltage	V_{F1}			0.3	V	$I_F=10mA$
	V_{F2}			0.5	V	$I_F=500mA$
Reverse current	I_R			30	μA	$V_R=10V$
Capacitance between terminals	C_T		20		pF	$V_R=10V, f=1MHz$

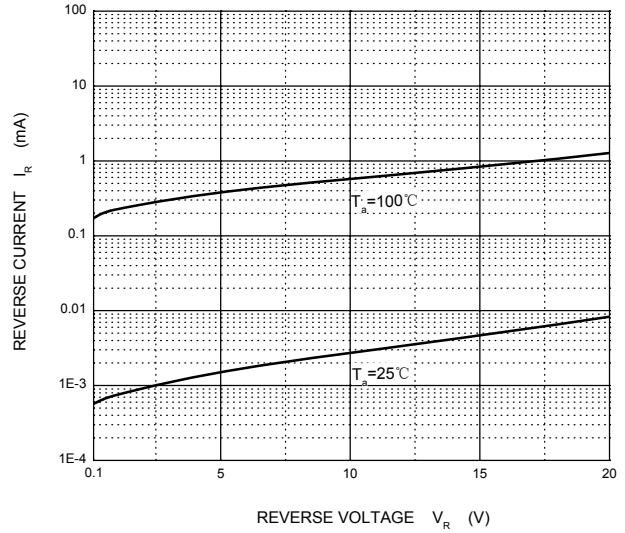


Typical Characteristics

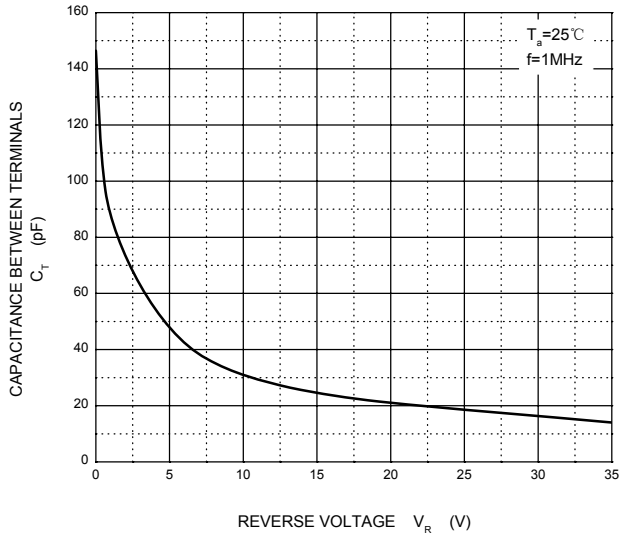
Forward Characteristics



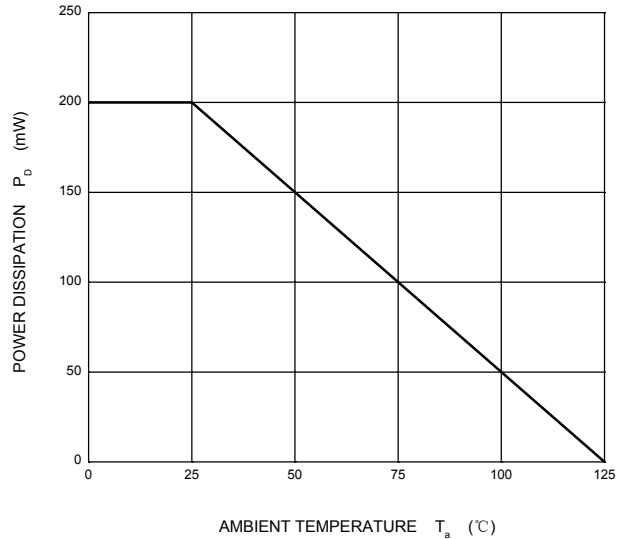
Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

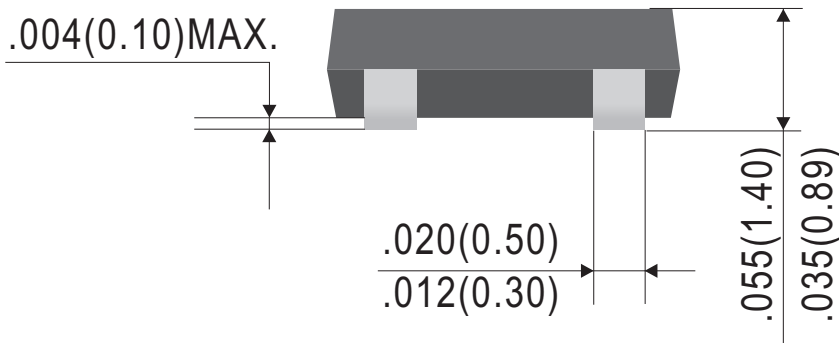
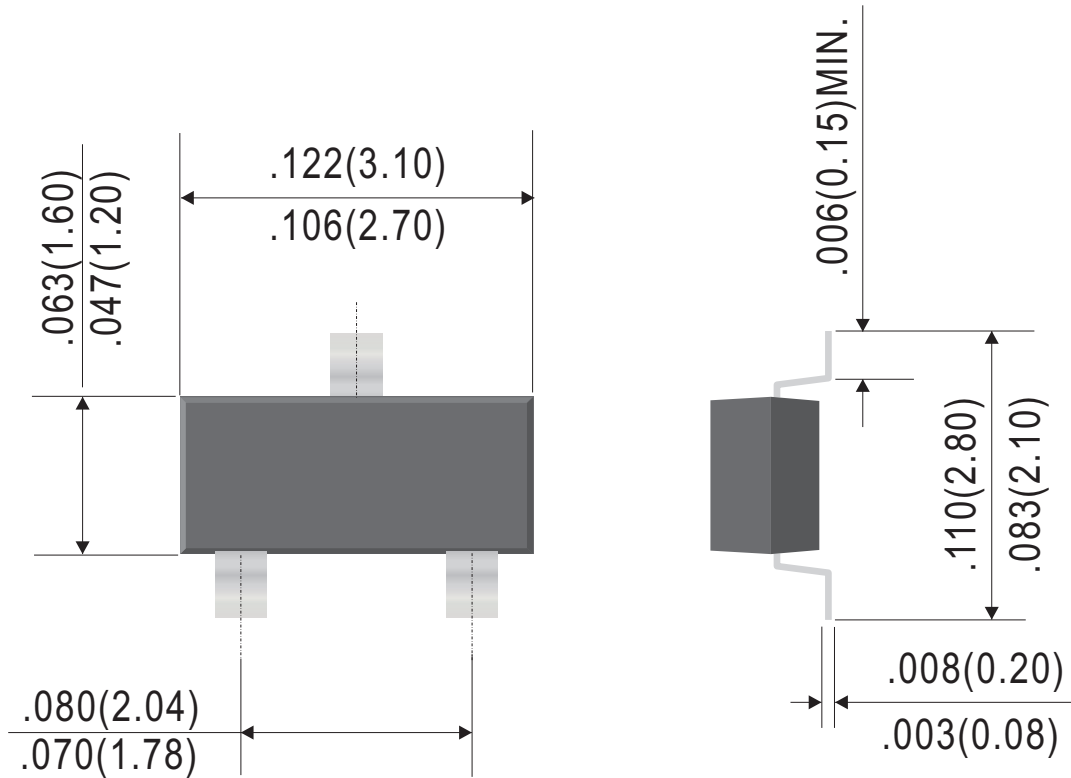




SOT-23 Plastic-Encapsulate Diodes

Outline Drawing

SOT-23



Dimensions in inches and (millimeters)



WILLAS



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SCS411DS

Ordering Information:

Device PN	Packing
SCS411DS -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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