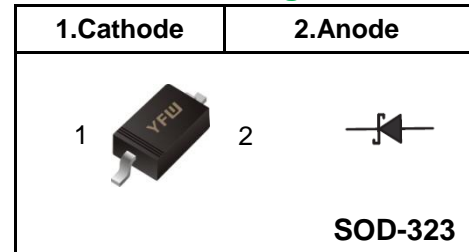


■ Schottky Barrier Rectifiers

**FEATURES**

- Low Forward Voltage Drop
- Fast Switching Time
- Surface Mount Package Ideally Suited for Automated Insertion
- Lead, Halogen and Antimony Free, RoHS Compliant "Green" Device

**Pinning**



**Marking Code**

<b>1SS357</b>	<b>S31</b>
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**Maximum Ratings and Electrical characteristics**

Ratings at 25 °C ambient temperature unless otherwise specified.

Parameter	Symbols	1SS357	Units
Peak reverse Voltage	$V_{RM}$	45	V
DC Blocking Voltage	$V_R$	40	V
Forward Continuous Current	$I_F$	100	mA
Non-Repetitive Peak Forward Surge Current @t = 8.3ms	$I_{FSM}$	1	A
Power dissipation	$P_D$	200	mW
Forward Voltage	$V_F$	0.35(Max) 0.45(Max) 0.60(Max)	V
Peak Reverse Current	$I_R$	5(Max)	uA
Typical Junction Capacitance	$C_T$	25(Max)	pF
Thermal Resistance, Junction to Ambient Air (NOTE 1)	$R_{\theta JA}$	500	°C/W
Junction Temperature	$T_j$	125	°C
Storage Temperature	$T_{stg}$	-55 ~ +150	°C

Notes: 1. Part mounted on FR-4 board with recommended pad layout.

Fig.1 Power Derating Curve

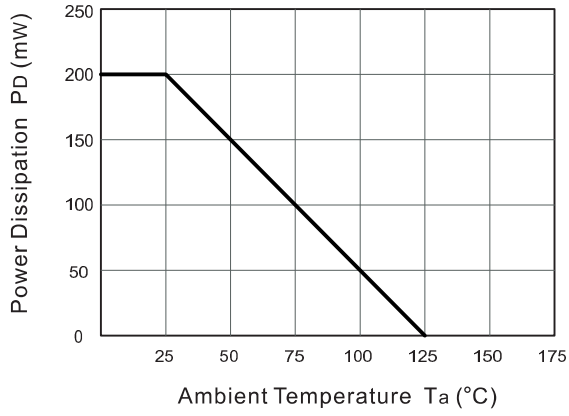


Fig.2 Typical Instantaneous Reverse Characteristics

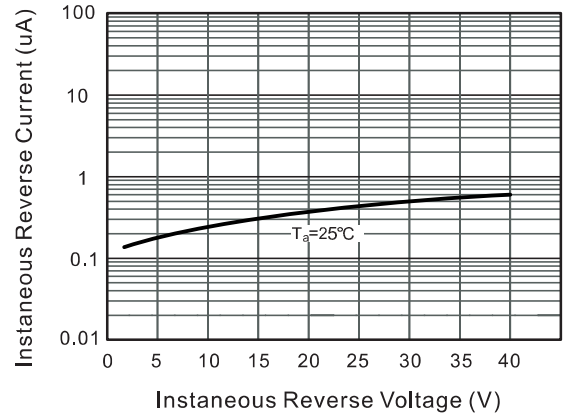


Fig.3 Typical Forward Characteristic

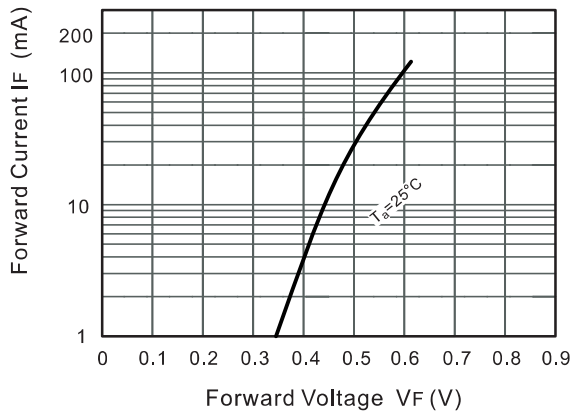
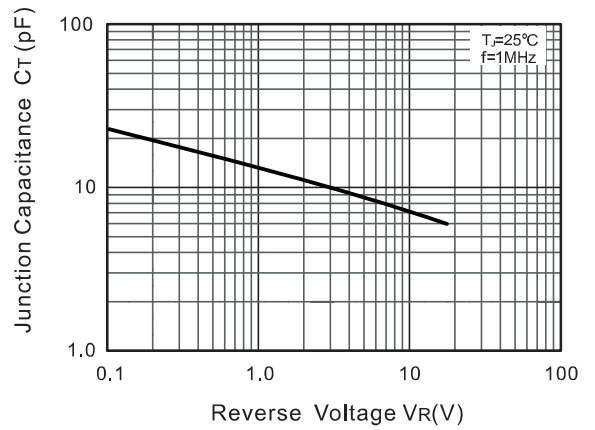


Fig.4 Typical Junction Capacitance



Ordering information

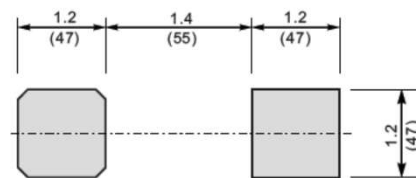
Package	Packing Description	Packing Quantity
SOD-323	Tape/Reel,7"reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-323

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.8	1.1	32	43
C	0.08	0.15	3.1	5.9
D	1.2	1.4	47	55
E	1.4	1.8	63	70
E1	2.55	2.75	100	108
b	0.25	0.4	9.8	16
L1	0.2	0.45	7.9	16
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



Unit:  $\frac{\text{mm}}{\text{mil}}$

## Disclaimer

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