Advanced Schottky Barrier Diodes

ASD723SN

Features:

- Designed for mounting on small surface
- Low stored charge
- Majority carrier conduction

Mechanical data:

- Case: 0805(2012) Standard package, molded plastic
- Terminals : Solder plated, solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band
- Mounting position: Any
- Weight: 4.8mg (approximately)

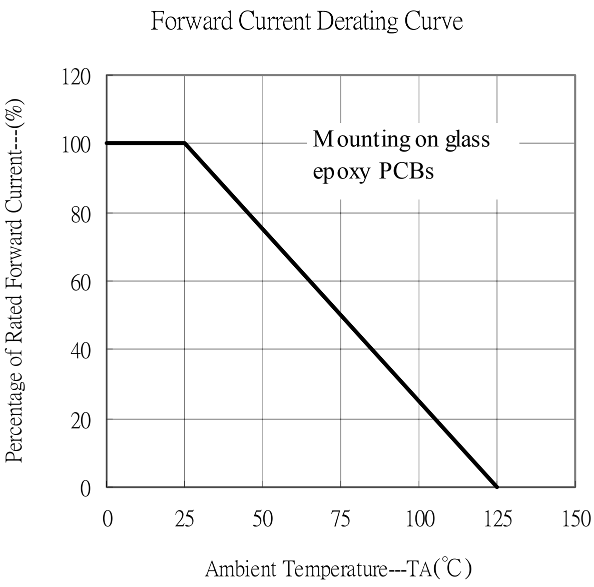
Absolute Maximum Ratings(Ta=25℃)

Characteristics	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	30	V
Average Rectified Current	I_O	200	mA
Forward Surge Current @ 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	1.5	A
Capacitance between Terminals @ f=1MHz and applied 10V_{DC} Reverse Voltage	C_T	20	pF
Junction Temperature	Tj	-40 to +125	°C
Storage Temperature Range	Tstg	-40 to +125	°C

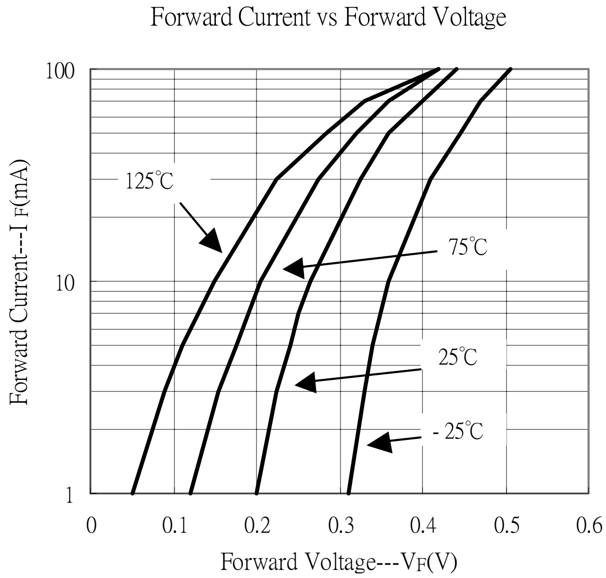
Electrical Characteristics (T_A=25°C, unless otherwise noted)

Parameter	Condition	Symbol	Min	Typ	Max	Unit
Forward Voltage	I_F = 200mA_{DC}	V_F	-	-	0.55	V
Reverse Current	VR = 30V_{DC}	I_R	-	-	15	μA

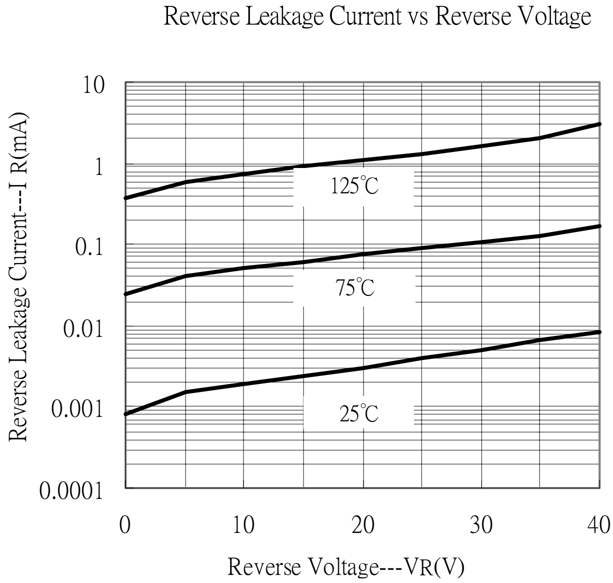
Characteristic Curves



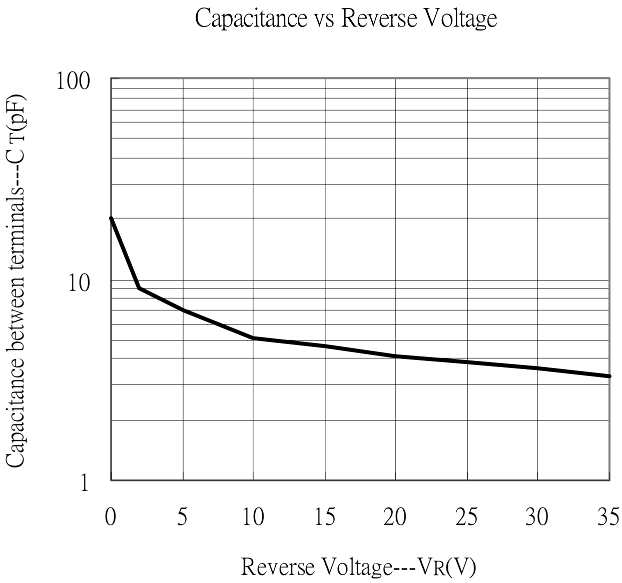
Forward Current Derating Curve



Forward Current vs Forward Voltage

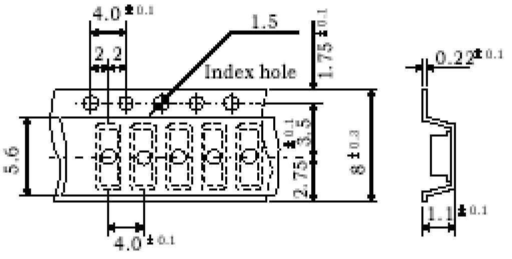


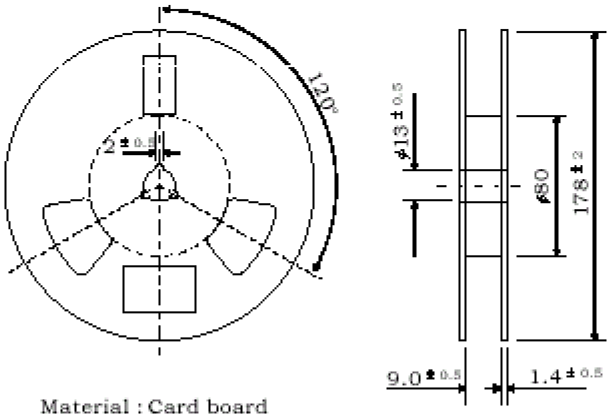
Reverse Leakage Current vs Reverse Voltage

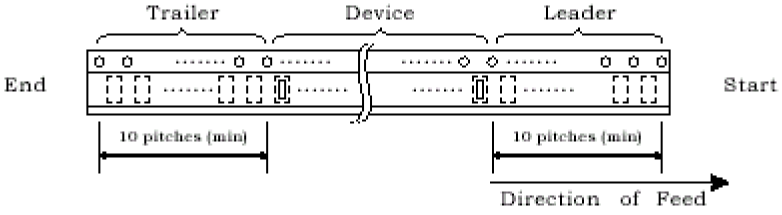
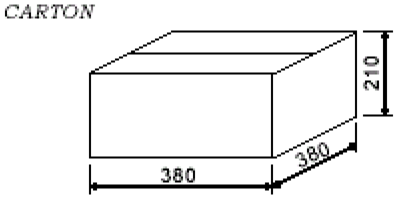


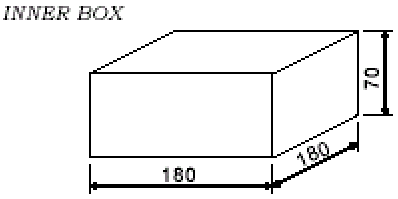
Capacitance vs Reverse Voltage

Packing Information

<table>
<tr><td colspan="2">Case No.</td><td colspan="2">0805</td></tr>
<tr><td rowspan="2">Taping</td><td>Dimensions</td><td colspan="2">

Material : Plastics</td></tr>
<tr><td>Quantity</td><td colspan="2">Standard capacity : 3,000pcs / reel</td></tr>
<tr><td rowspan="2">Reel</td><td>Dimensions</td><td colspan="2">

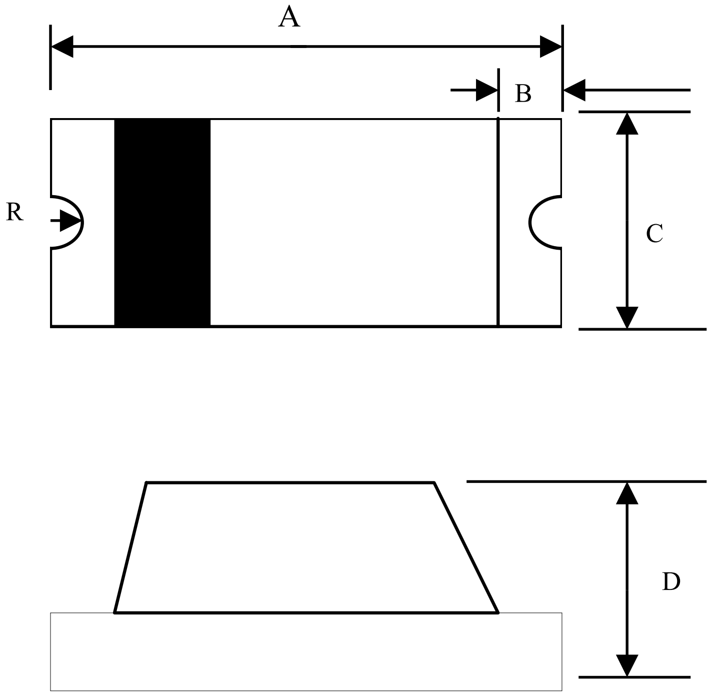
Material : Card board</td></tr>
<tr><td>Leader and Trailer</td><td colspan="2">
</td></tr>
<tr><td rowspan="2">Standard Package</td><td>Dimensions</td><td>

Material : Corrugated card board</td><td>

Material : Corrugated card board</td></tr>
<tr><td>Quantity</td><td>Standard capacity : 150,000pcs / carton
(50 reels / carton)</td><td>Standard capacity : 15,000pcs / box
(5 reels / box)</td></tr>
</table>

0805(2012) Dimension

Marking Code : 4



0805 surface mount package
CYStek package code: SN

*:Typical

DIM	Inches		Millimeters		DIM	Inches		Millimeters	
	Min.	Max.	Min.	Max.		Min.	Max.	Min.	Max.
A	0.079	0.087	2.00	2.20	C	0.047	0.055	1.20	1.40
B	0.016(typ.)		0.40(typ.)		D	0.035	0.043	0.90	1.10
R	0.008(tup.)		0.20(typ.)						

Notes : 1.Controlling dimension : millimeters.
2.Maximum lead thickness includes lead finish thickness, and minimum lead thickness is the minimum thickness of base material.
3.If there is any question with packing specification or packing method, please contact your local CYStek sales office.