



100V/100mA SURFACE MOUNT SWITCHING DIODE

CDSS355A**Features:**

- Designed for mounting on small surface
- High speed switching
- High mounting capability, strong surge withstand, high reliability

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°C)

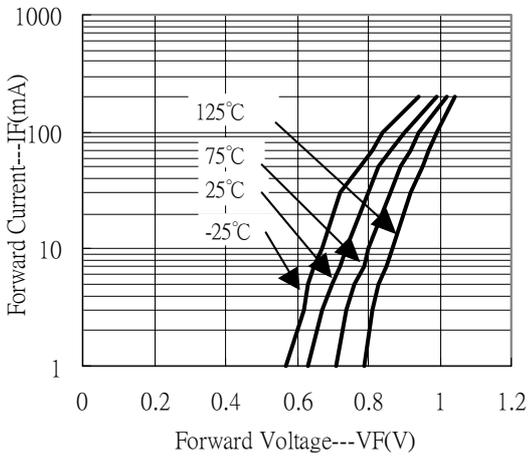
Characteristics	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	110	V
Reverse Voltage	V _R	100	V
Average Forward Current @ 8.3ms single half sinewave superimposed on rated load(JEDEC method)	I _O	100	mA
Peak Forward Surge Current @ single sinewave, 60Hz	I _{FSM}	1.0	A
Power Dissipation	P _D	300	mW
Junction Temperature	T _j	-55 to +125	°C
Storage Temperature Range	T _{stg}	-55 to +125	°C

Electrical Characteristics (T_j=25°C)

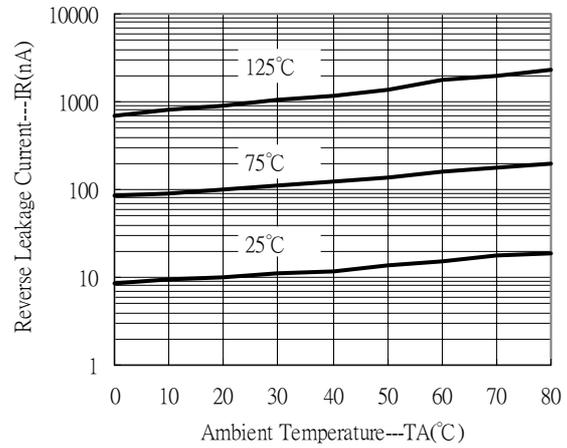
Characteristics	Symbol	Min	Typ	Max	Unit
Forward Voltage at I _F =100mA	V _F	-	-	1	V
Reverse Leakage Current at V _R =100V	I _R	-	-	100	nA
Diode Capacitance at V _R = 1V	C _D	-	-	3	pF
Reverse Recovery Time From I _F =-I _R =10mA to I _{RR} =-1mA, V _R =6V, R _L =50Ω	t _{rr}	-	-	4	ns

Characteristic Curves

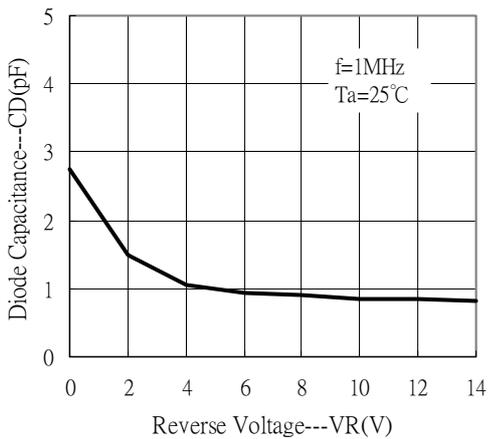
Forward Current vs Forward Voltage



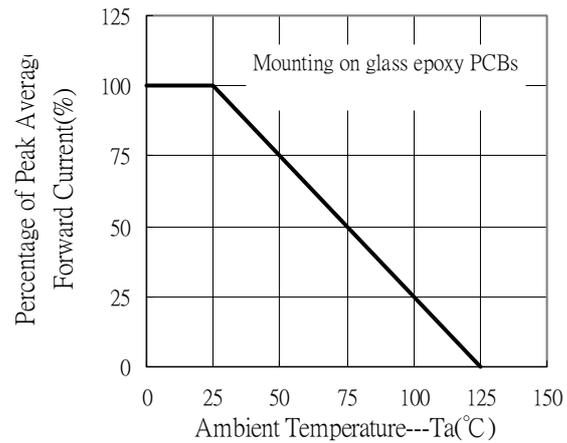
Reverse Leakage Current vs Temperature



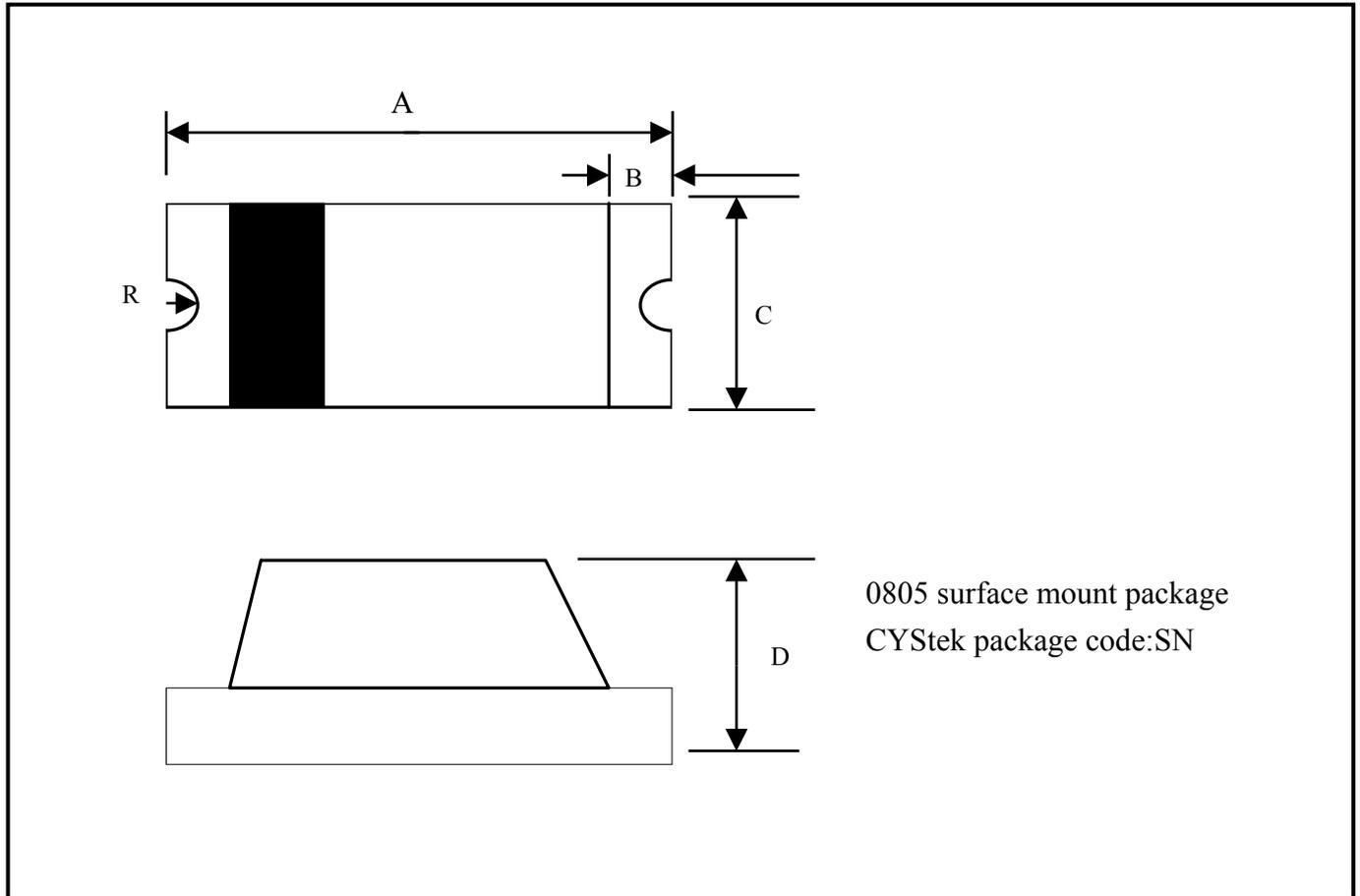
Diode Capacitance vs Reverse Voltage



Forward Current vs Ambient Temperature



0805(2012) Dimension



*: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.

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