

Description

The SS12~SS120 is surface mount schottky barrier diode, SMA package.

Applications

- General purpose.

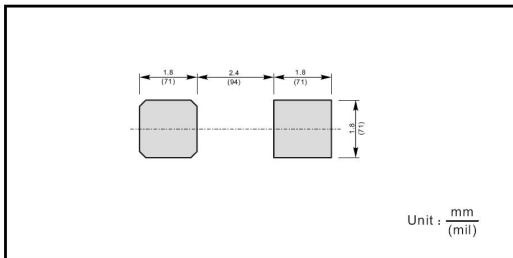
Features

- Reverse voltage : 20 to 200V
- Forward current:1.0A
- Glass passivated chip junction
- Lead free in comply with EU RoHS 2011/65/EU directives, For surface mounted applications
- Halogen-free productt

Equivalent Circuit & Pinning



The recommended mounting pad size



PIN	DESCRIPTION
1	Cathode
2	Anode

Marking

- See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating								Unit
		SS12	SS14	SS16	SS18	SS110	SS112	SS115	SS120	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current Tc=100°C	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	25								A
Typical Junction Capacitance at $V_R=4V$ $f=1MHz$	C_j	110		80						pF
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	90								°C/W
	$R_{\theta JC}$	15								
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150								°C

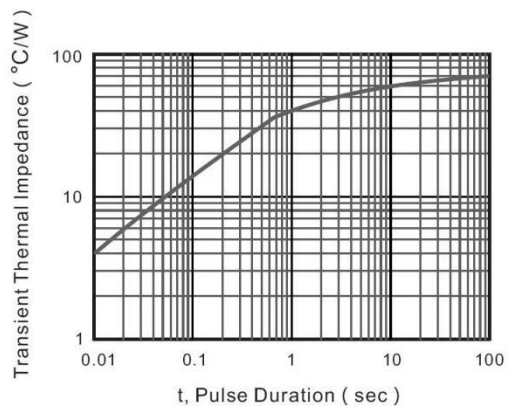
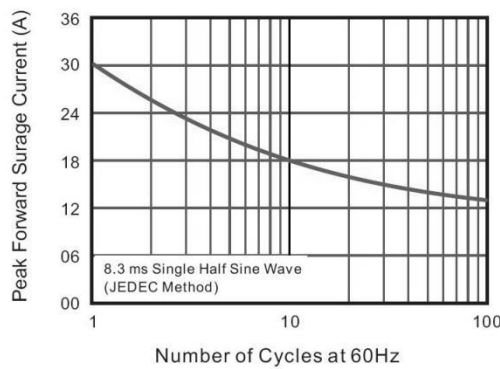
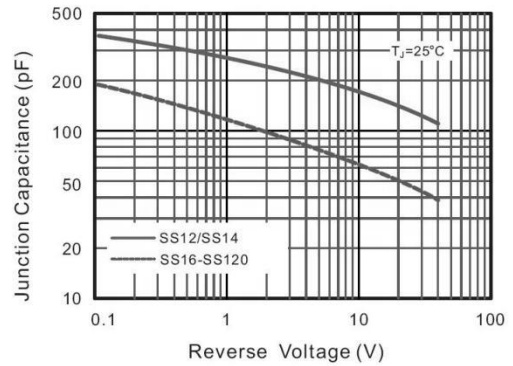
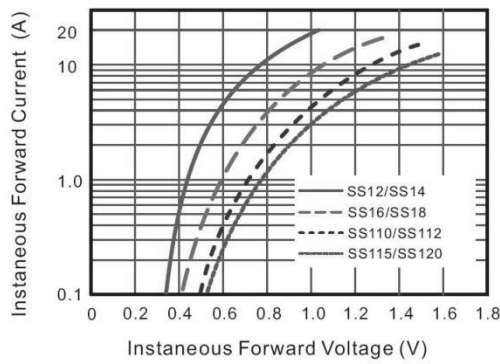
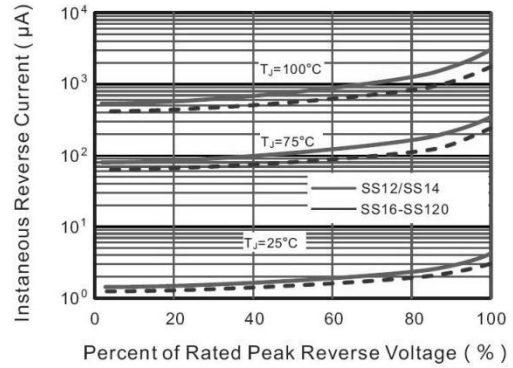
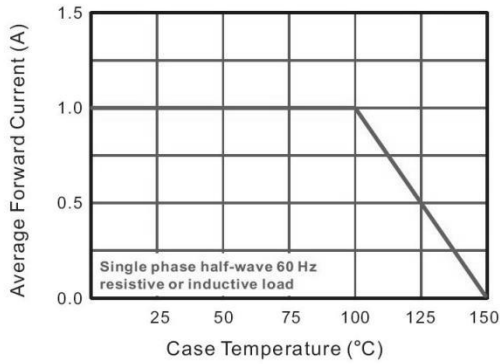
Note:

1) P.C.B. mounted with 2.0 X 2.0" (5 X5 cm) copper pad areas.

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating							Unit
			SS12	SS14	SS16	SS18	SS110	SS112	SS115	
Maximum Instantaneous Forward Voltage	V_F	$I_F=1.0A$	0.55		0.70	0.85		0.90		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ C$	0.3			0.2		0.1		mA
		$T_a=100^\circ C$	10			5.0		2.0		mA

Electrical Characteristic Curve



Marking instructions



Note:

SS14 : Product Type Code

**** : Lot No. Code , The 1st * means:YM Code , The last 3 * means:little Lot No Code

Type number	Marking code
SS12	SS12
SS14	SS14
SS16	SS16
SS18	SS18
SS110	SS110
SS112	SS112
SS115	SS115
SS120	SS120

Packaging SPEC.

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMA	5000	2	10000	7	70000	13" ×12	336X336X40	380X335X366

Package Outline Dimensions

SMA

