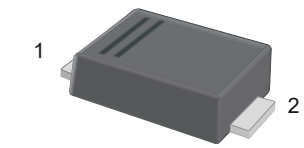
SSL12F-PJ~SSL16F-PJ
Schottky Barrier Diode

Features

- Low power loss, high efficiency
- For surface mounted applications
- High forward surge current capability

SMAF



1.Cathode — 2.Anode

Marking Code:
SSL12F-PJ : SSL12
SSL14F-PJ : SSL14
SSL16F-PJ : SSL16

Absolute Maximum Ratings and Electrical Characteristics

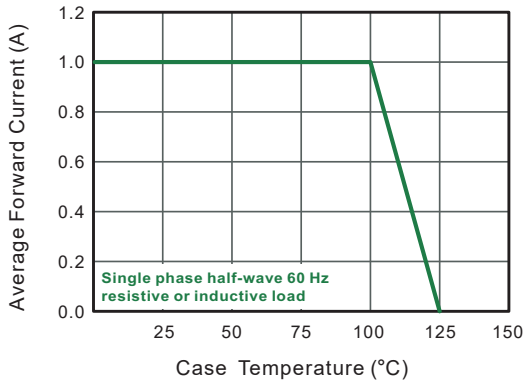
Ratings at 25℃ ambient temperature unless otherwise specified.

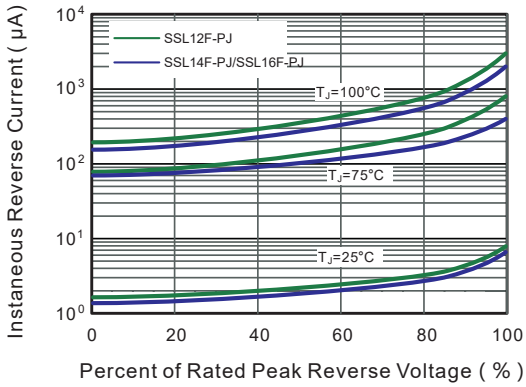
Parameter	Symbol	SSL12F-PJ	SSL14F-PJ	SSL16F-PJ	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	40	60	V
Maximum RMS Voltage	V_{RMS}	14	28	42	V
Maximum DC Blocking Voltage	V_{DC}	20	40	60	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0			A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	30			A
Maximum Instantaneous Forward Voltage at 1 A	V_F	0.45		0.50	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_A = 25 °C T_A = 100 °C	I_R	0.3 10	0.2 5		mA
Typical Junction Capacitance Note1	C_j	180		80	pF
Typical Thermal Resistance Note2	$R_{\theta JA}$	85			°C/W
Operating Junction Temperature Range	T_J	-55 to +125			°C
Storage Temperature Range	T_{STG}	-55 to +150			°C

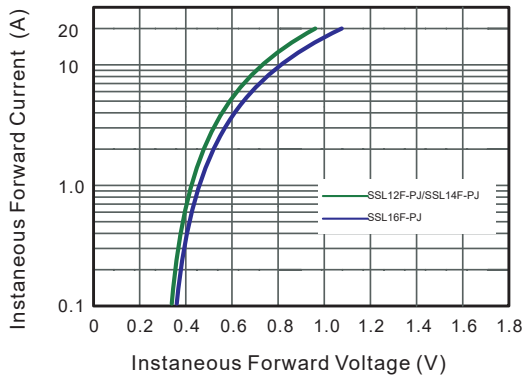
Note:

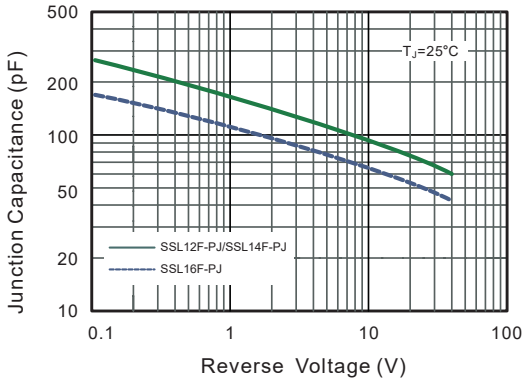
1. Measured at 1 MHz and applied reverse voltage of 4 V D.C
2. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

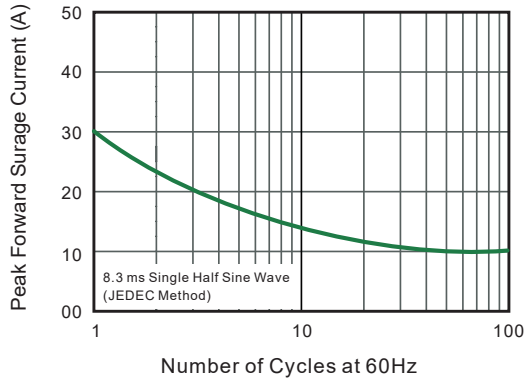
Typical Characteristic Curves

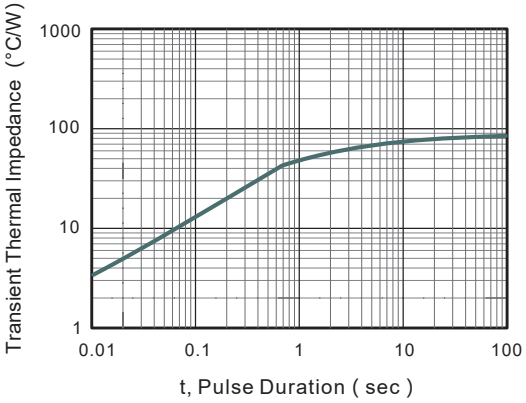








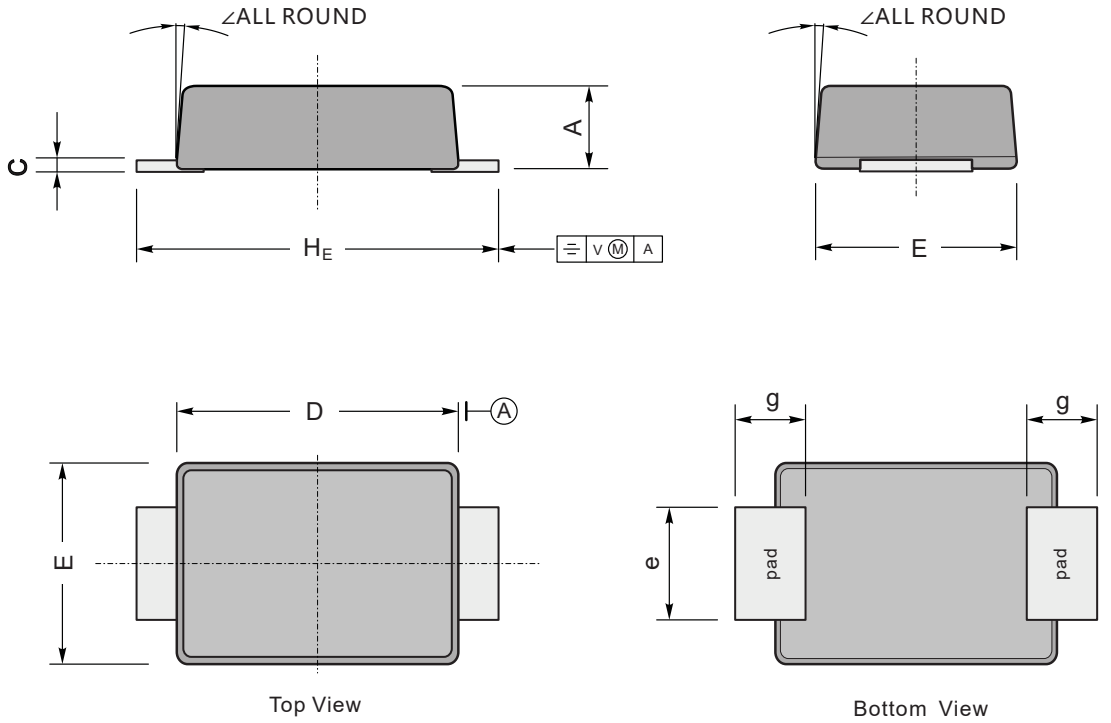




Package Outline

SMAF

Dimensions in mm



UNIT		A	C	D	E	e	g	H_E	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	
mil	max	47	7.9	146	106	63	47	193	
	min	35	4.7	130	94	51	31	173	