

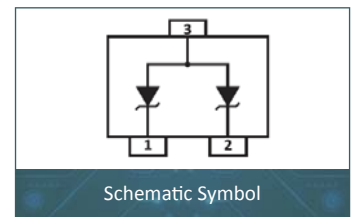
## 1. FEATURES

- 350W Peak pulse Power Per Line (tp=8/20us)
- Protects one bidirectional line or two unidirectional lines
- Low clamping voltage
- ROHS Compliant



## 2. APPLICATIONS

- Cellular Handsets and Accessories
- Portable Electronics
- Industrial Controls
- Set-Top Box
- Instrumentation
- Servers, Notebook, and Desktop PC



## 3. IEC COMPATIBILITY

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)

## 4. THERMAL CONSIDERATIONS

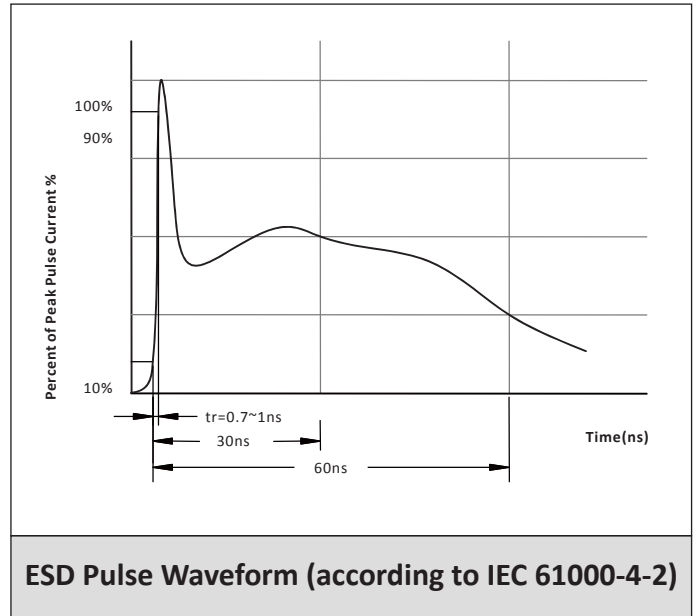
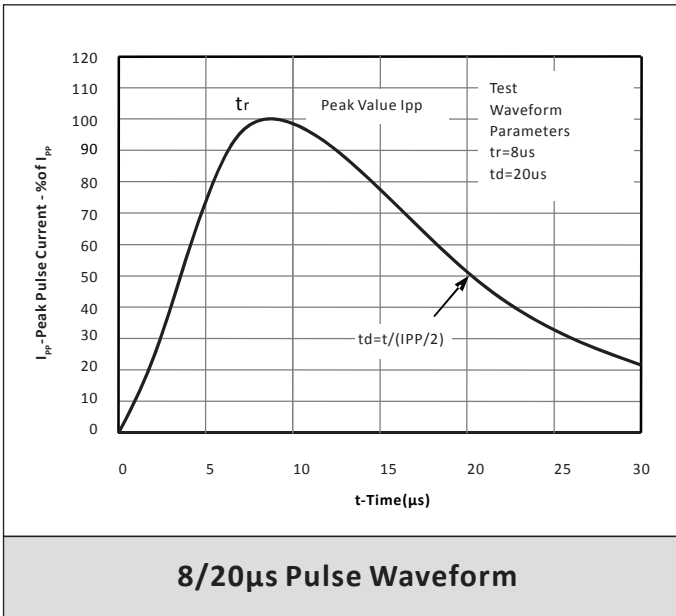
Symbol	Parameter	Value	Unit
$P_{PP}$	Peak Pulse Power (tp=8/20μs waveform)	350	Watts
$T_J$	Operating Temperature Range	-55 to +150	°C
$T_{STG}$	Storage Temperature Range	-55 to +150	°C

## 5. ELECTRICAL CHARACTERISTICS

Part Number	Device Marking Code	$V_{RWM}$	$V_{BR}$	$I_T$	$V_C@1A$	$V_C@6A$	$I_R$	$C_T$
		Max.(V)	Min.(V)	(mA)	Max.(V)	Max.(V)	Max.(μA)	Max.(pF)
SESM15	M15	15.0	16.7	1.0	24.0	28.0	1.0	100.0

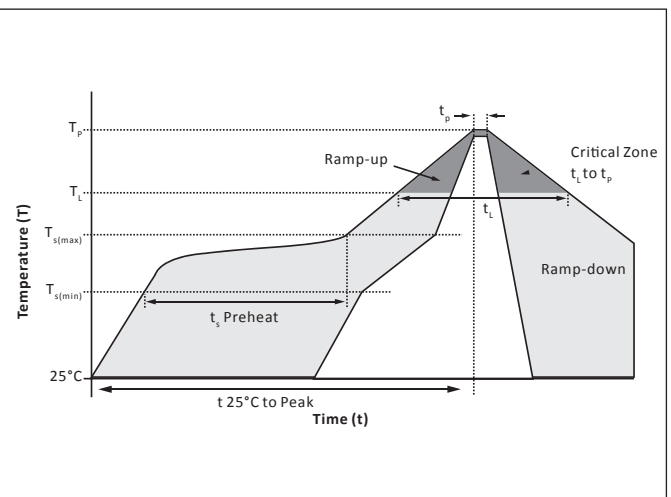


## 6. CHARACTERISTIC CURVES

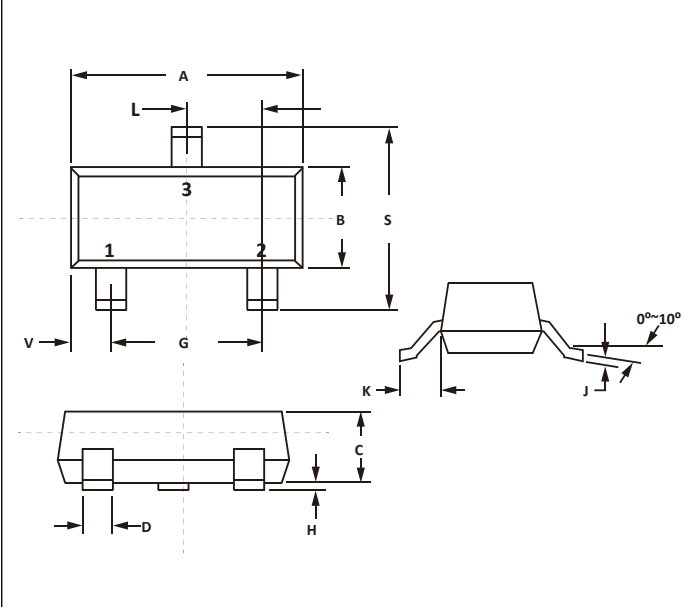


## 7. SOLDERING PARAMETERS

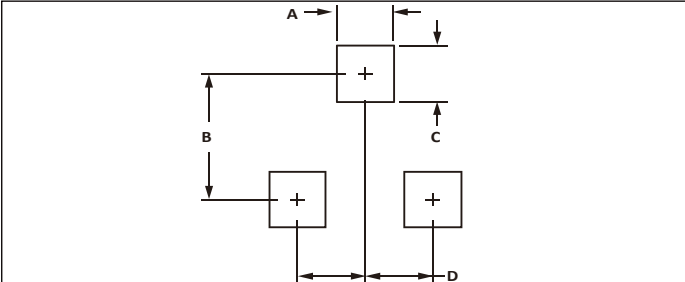
Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ( $T_{s(min)}$ )	150°C
	Temperature Max ( $T_{s(max)}$ )	200°C
	Time (min to max) ( $t_g$ )	60 – 180 secs
Average ramp up rate (Liquidus Temp ( $T_L$ ) to peak)		3°C/second max
$T_{s(max)}$ to $T_L$ - Ramp-up Rate		3°C/second max
Reflow	Temperature ( $T_L$ ) (Liquidus)	217°C
	Time (min to max) ( $t_r$ )	60 – 150 seconds
Peak Temperature ( $T_p$ )		260°C
Time within 5°C of actual peak Temperature ( $t_p$ )		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature ( $T_p$ )		8 minutes max.
Do not exceed		260°C



## 8. SOT-23 PACKAGE INFORMATION

	DIM	Millimeters		Inches	
		Min.	Max.	Min.	Max.
A	2.80	3.04	0.110	0.120	
B	1.20	1.40	0.047	0.055	
C	0.89	1.11	0.035	0.044	
D	0.37	0.50	0.015	0.020	
G	1.78	2.04	0.070	0.081	
H	0.013	0.100	0.001	0.004	
J	0.085	0.180	0.003	0.007	
K	0.35	0.69	0.014	0.029	
L	0.89	1.02	0.035	0.040	
S	2.10	2.64	0.083	0.104	
V	0.45	0.60	0.018	0.024	

## 9. RECOMMENDED PAD LAYOUT DIMENSIONS

	DIM	Millimeters		Inches	
		Min	Max	Min	Max
A	0.71	0.97	0.028	0.038	
B	1.88	2.13	0.074	0.084	
C	0.71	0.97	0.028	0.038	
D	0.81	1.07	0.032	0.042	

## 10. ORDERING INFORMATION

Part Number	Component Package	QTY/Reel	Reel Size
SESM15	SOT-23	3000PCS	7"



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