

/ Descriptions

50V ~ 600V 5.0A SMBF

Surface Mount Ultrafast Recovery Rectifier, Reverse Voltage: 50 to 600V, Forward Current: 5.0A, SMBF package.

/ Features

RoHS 2011/65/EU

Glass Passivated Chip Junction High efficiency Lead free in comply with EU ROHS 2011/65/EU directives For surface mounted applications. Halogen free product.

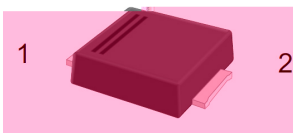
/ Applications

General purpose.

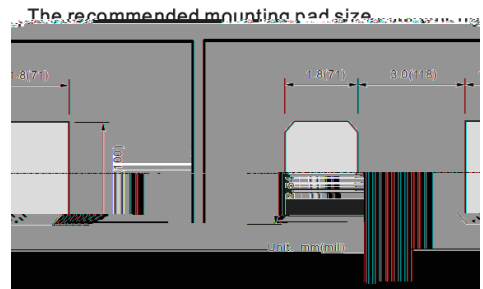
/ Equivalent Circuit



/ Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

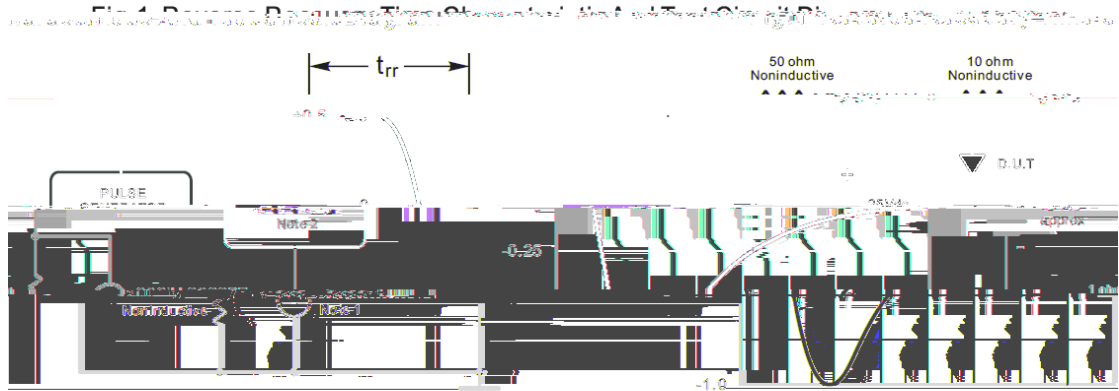
Parameter Symbol Rating Maximum DC Unit

Note:

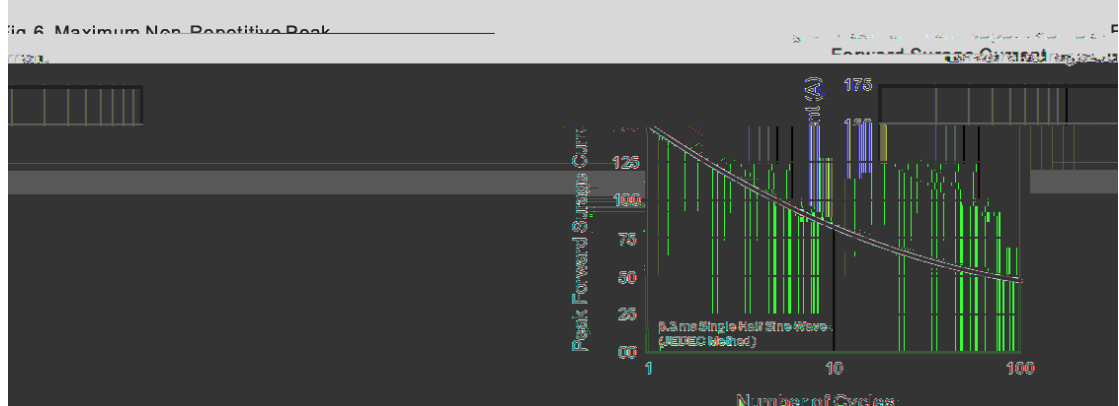
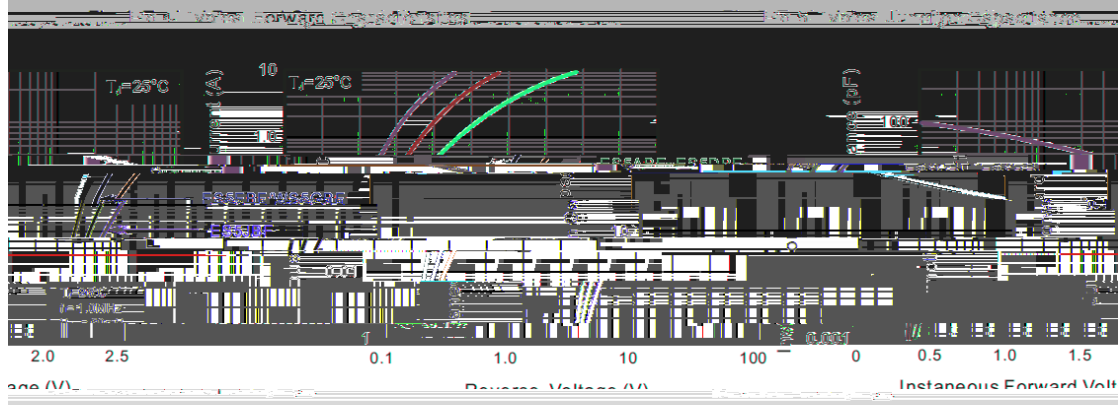
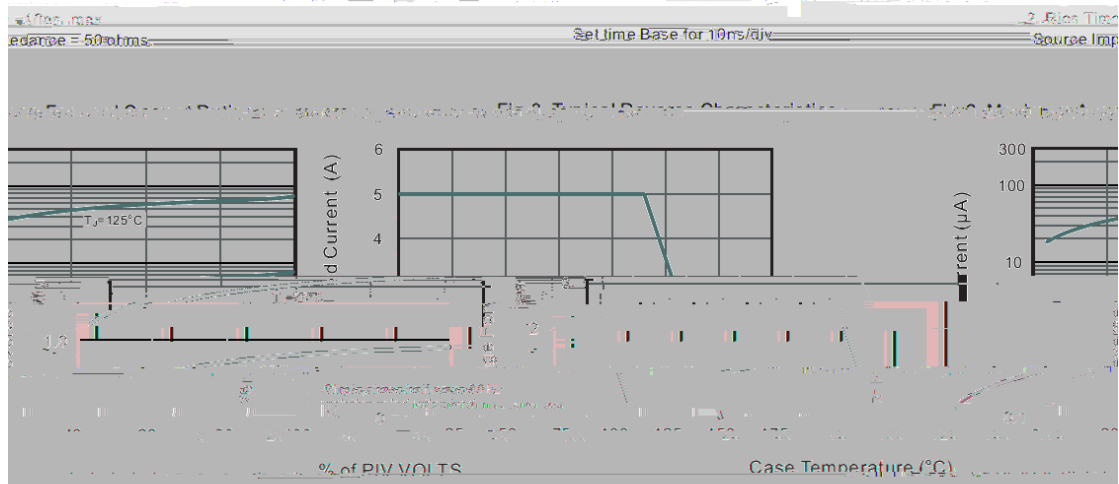
(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas .

Parameter	Symbol	Test condition	Rating						Unit
			ES5ABF	ES5BBF	ES5CBF	ES5DBF	ES5EBF	ES5GBF	
Maximum Instantaneous Forward Voltage	V_F	$I_F=5.0A$	1.0			1.25		1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25$	10.0						uA
		$T_a=125$	100						
Maximum Reverse Recovery Time	T_{rr}	$I_F=0.5A$ $I_R=1.0A$ $I_{rr}=0.25A$	35						ns

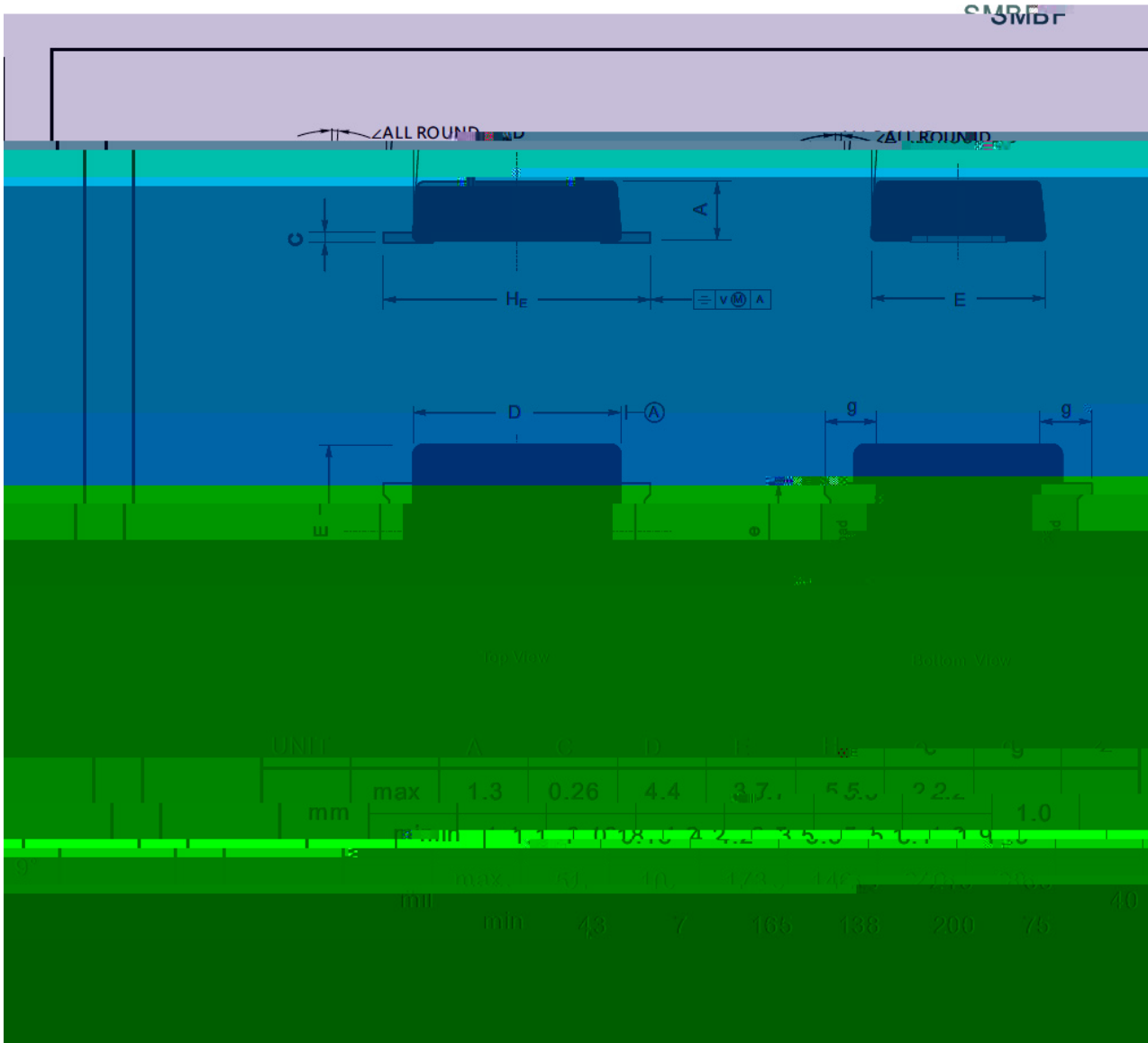
/ Electrical Characteristic Curve



Note: 1. Rise Time = 7 ns, max.



/ Package Dimensions

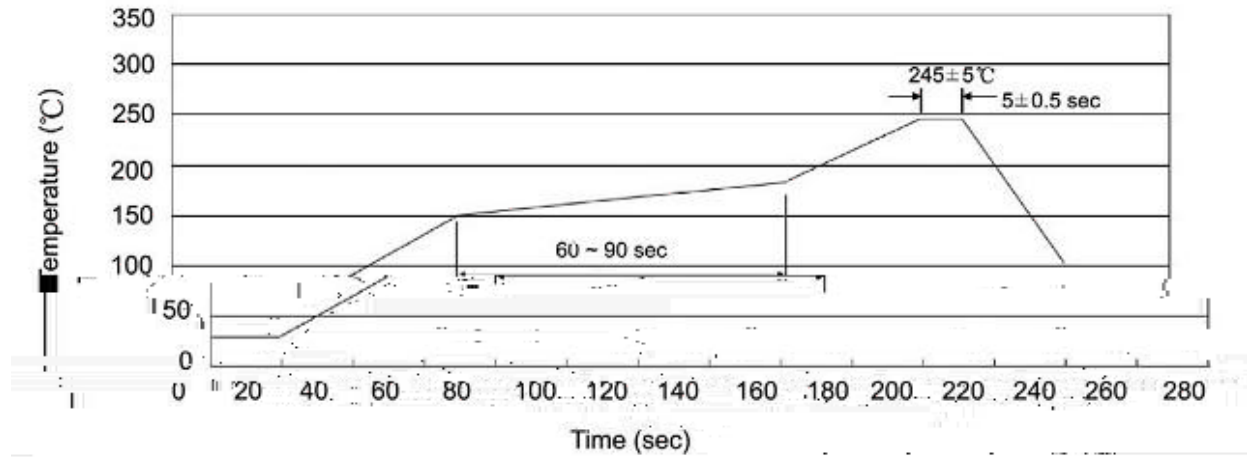


/ Marking Instructions

Marking

Type number	Marking code
E5AB	ES5ABF
E5BB	ES5BBF
E5CB	ES5CBF
E5DB	ES5DBF
E5EB	ES5EBF
E5GB	ES5GBF
E5JB	ES5JBF

() / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- | | | | | | |
|---|-------|-----|----|-----------|---|
| 1 | 150 | 180 | 60 | 90sec; | 1.Preheating:150~180 , Time:60~90sec. |
| 2 | 245±5 | | | 5±0.5sec; | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | | 2 | 10 /sec. | 3. Cooling Speed: 2~10 /sec. |