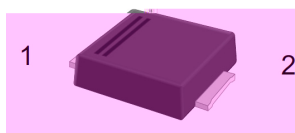


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Surface Mount Ultrafast Recovery Rectifier, Reverse Voltage: 50 to 600V, Forward Current: 5.0A, SMBF package.

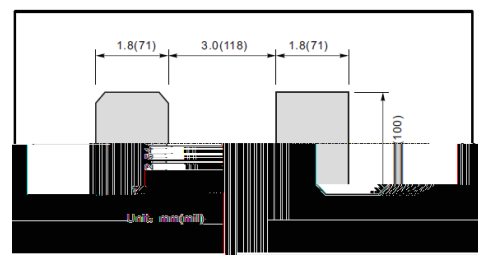
Glass Passivated Chip Junction High efficiency Lead free in comply with EU R0HS 2011/65/EU directives For surface mounted applications. Halogen free product.

General purpose.



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



See Marking Instructions.

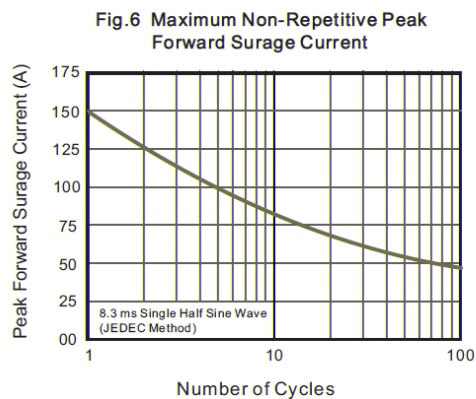
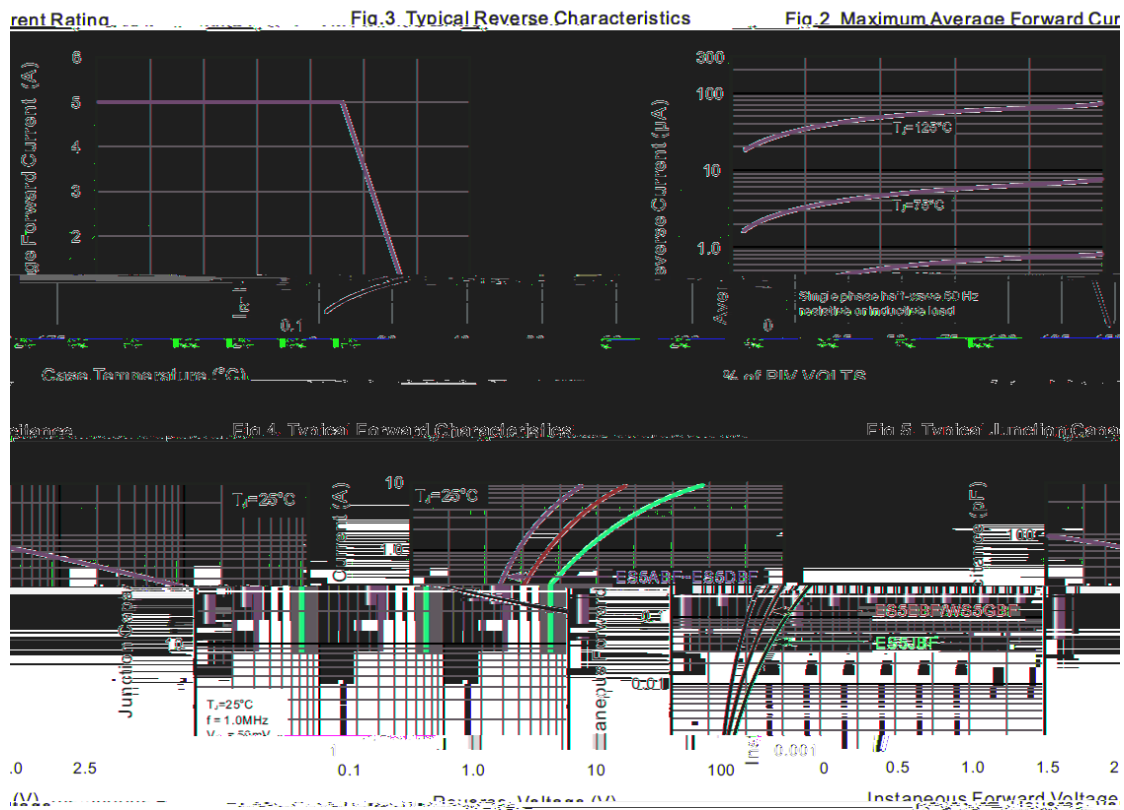
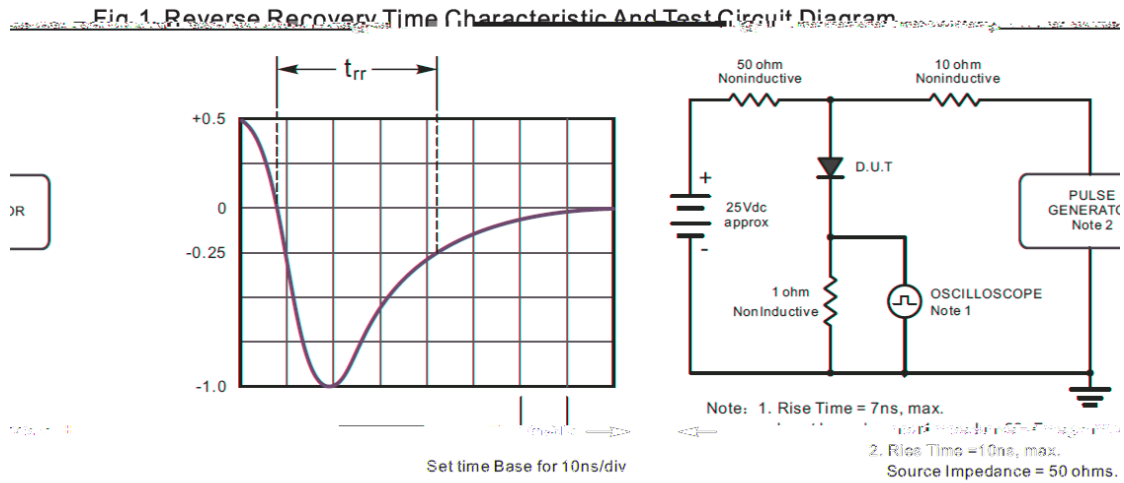
Parameter	Symbol	Rating							Unit
		ES5ABF	ES5BBF	ES5CBF	ES5DBF	ES5EBF	ES5GBF	ES5JBF	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V _{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at Tc = 115	I _{F AV}	5.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	150							A
Typical Thermal Resistance ⁽¹⁾	R _{θJA}	40							°C/W
	R _{θJC}	12							
Operating and Storage Temperature Range	T _j , T _{stg}	-55~+150							°C

Note:

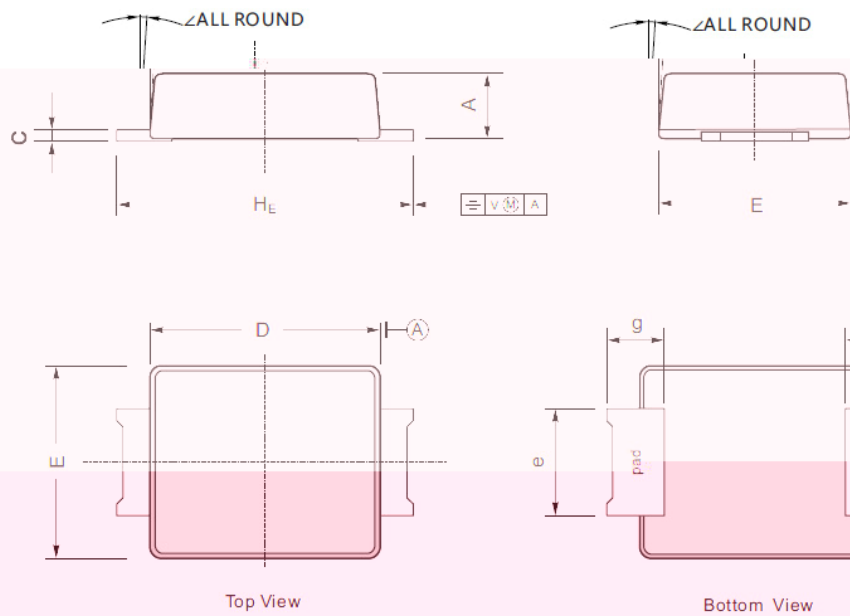
(1) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areass .

Parameter	Symbol	Test condition	Rating							Unit
			ES5ABF	ES5BBF	ES5CBF	ES5DBF	ES5EBF	ES5GBF	ES5JBF	
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

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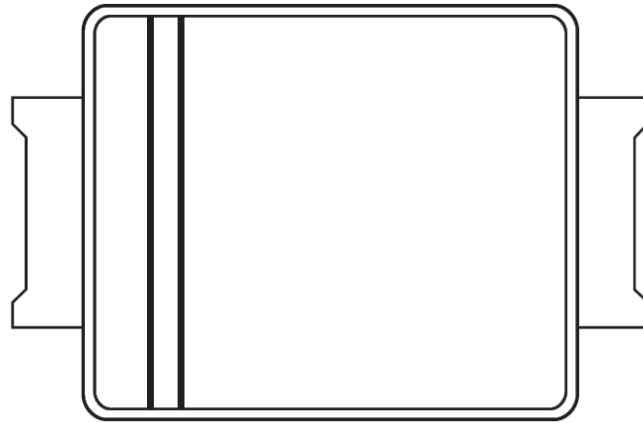
SMBT



UNIT			A	C	D	E	H _E	e	g	∠
		max	1.3	0.26	4.4	3.7	5.5	2.2		
	mm	min	1.1	0.18	4.2	3.5	5.1	1.9	1.0	9°
		mil	max	51	10	173	146	216	86	
	min		43	7	165	138	200	75		

Marking

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



*

*

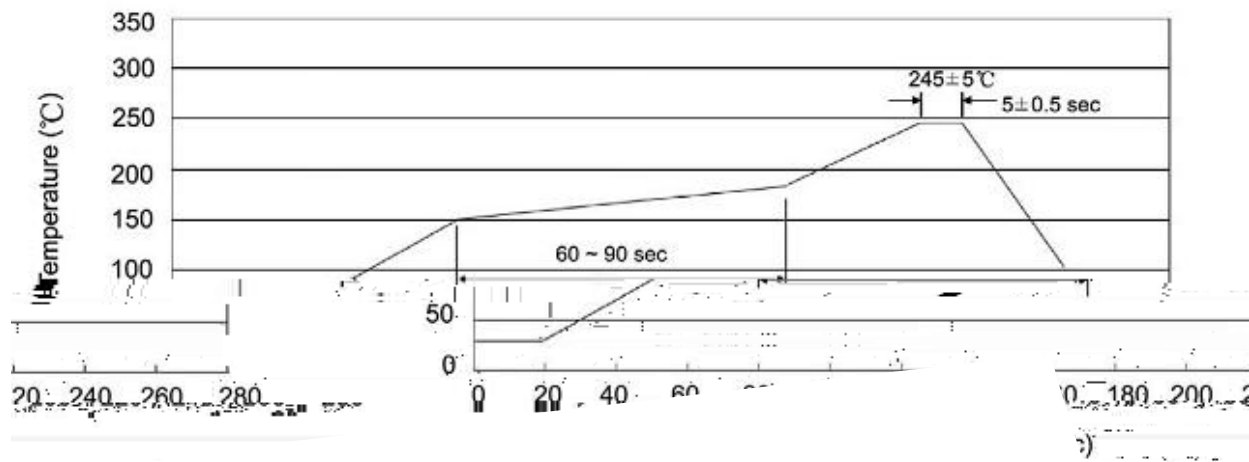
Note:

Product Type Code

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

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Temperature Profile for IR Reflow Soldering(Pb-Free)



- 1 150 90sec.
- 2 245 5 0.5sec.
- 3