/ Descriptions

SOT-23
Silicon Diode in a SOT-23 Plastic Package.

/ Features

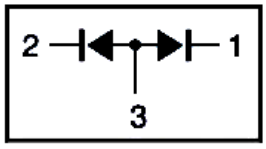
450mA

Small package, double diode, high switching speed, high repetitive peak reverse voltage, repetitive peak forward current up to 450mA. HF Product.

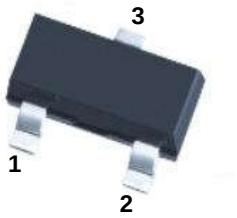
/ Applications

High-speed switching in thick and thin-film circuits..

/ Equivalent Circuit



/ Pinning



PIN: See Equivalent Circuit.

/ h_{FE} Classifications & Marking

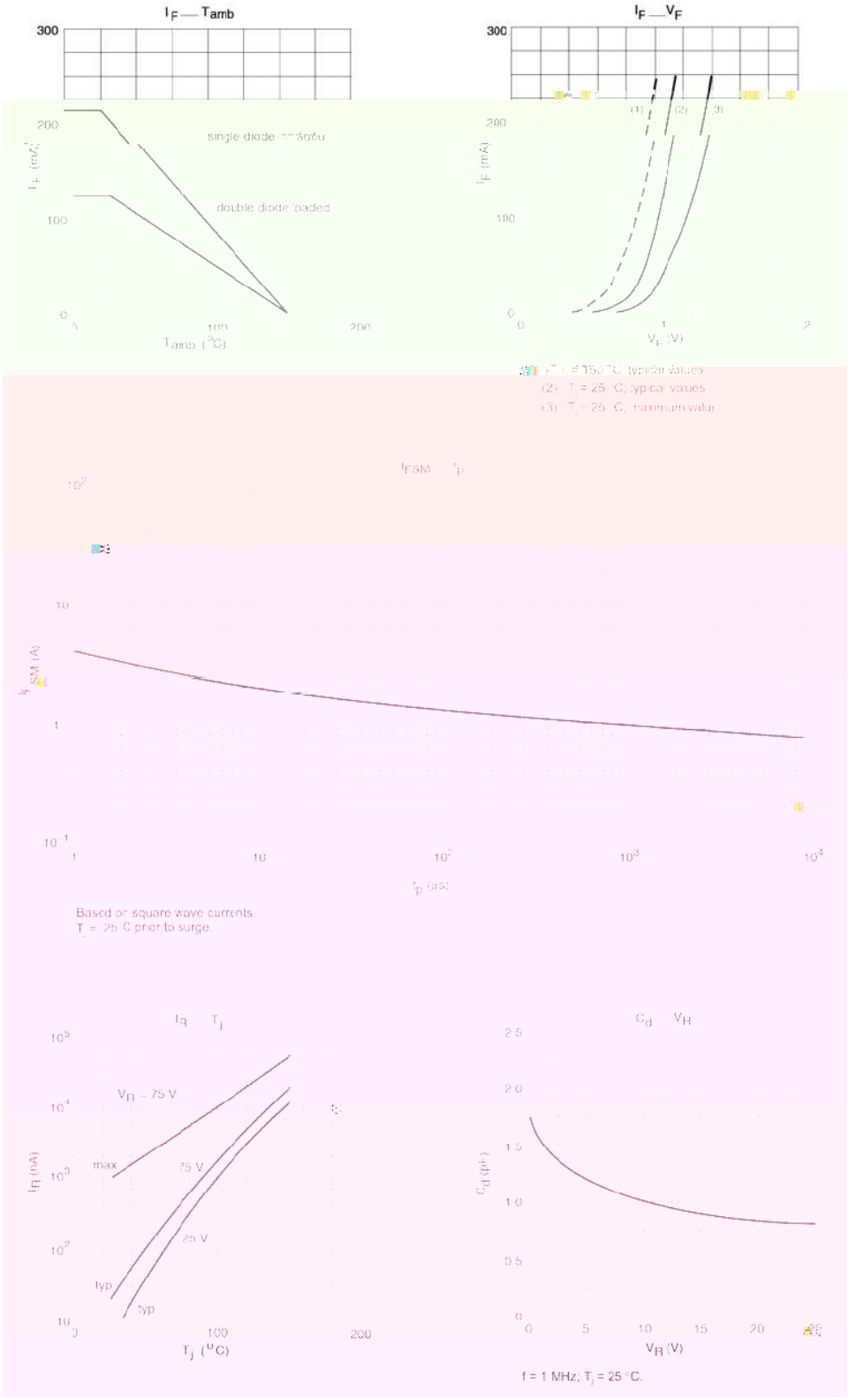
Marking	HA1

Parameter	Symbol	Rating	Unit
Repetitive Reverse Voltage	V_{RRM}	85	V
Continuous Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(single\ diode\ loaded)}$	215	mA
	$I_{F(double\ diode\ loaded)}$	125	mA
Repetitive Peak Forward Current	I_{FRM}	450	mA
Non-repetitive Peak Forward Surge Current	$I_{FSM(1)(t=1\mu S)}$	4.0	A
	$I_{FSM(2)(t=1mS)}$	1.0	A
	$I_{FSM(3)(t=1S)}$	0.5	A
Power Dissipation	P_{tot}	250	mW

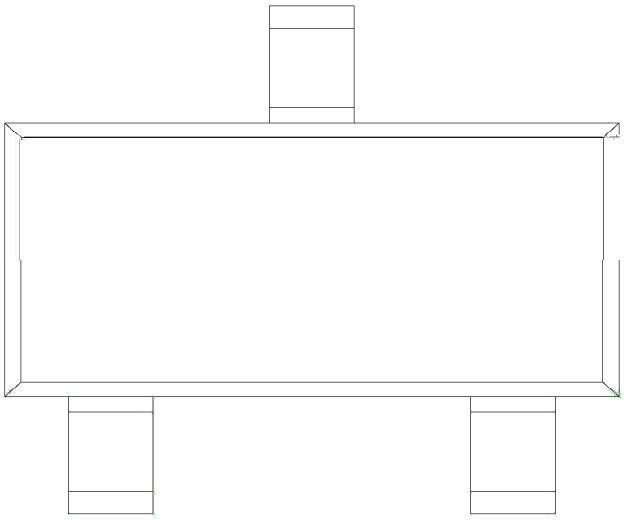
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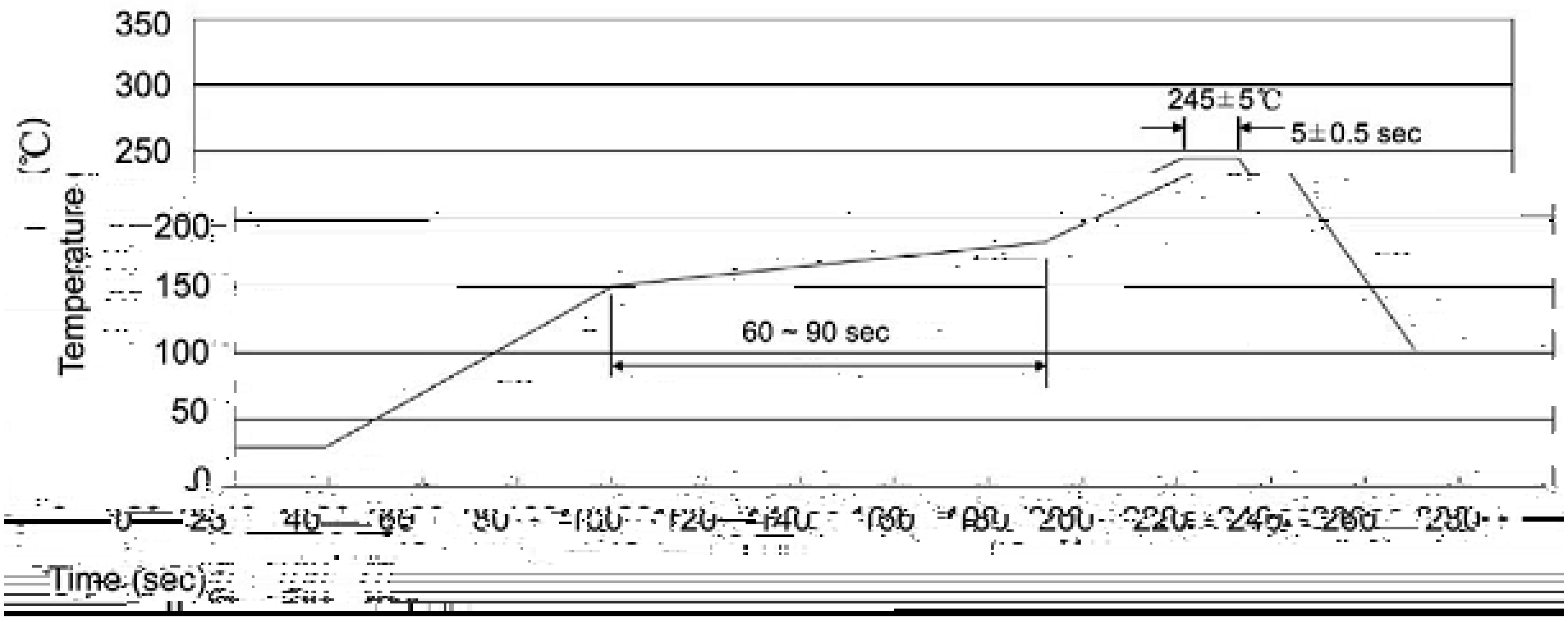
/ Electrical Characteristic Curve



/ Marking Instructions



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



Note:

1 25 150 60 90sec;	1.Preheating:25~150 , 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.

/ Resistance to Soldering Heat Test Conditions

260±5	10±1 sec.	Temp.:260±5℃	Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit：mm³)	
	只卷盘	卷盘盒	只盒	盒箱	只箱	盒	箱