

Rev.F Oct.-2018

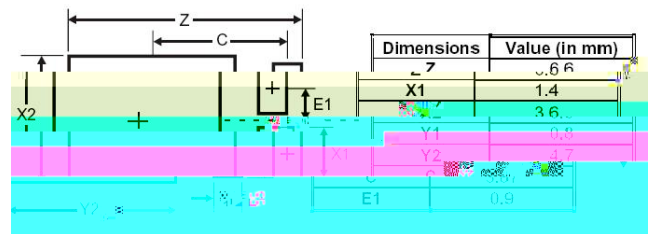
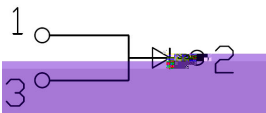
KF 77

Schottky Barrier Diode in a TO-277 Plastic Package.

Low forward voltage drop, low power losses, High efficiency operation. HF Product.

For use in high frequency inverters, switching power supplies, freewheeling diodes, OR-ing diode, dc-to-dc converters and reverse battery protection.

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PIN1 Anode PIN 2 Cathode PIN 3 Anode

Suggested Pad layout

See Marking Instructions.

Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V_{RM}	50	V
Working Peak Reverse Voltage	V_{RSM}		
DC Blocking Voltage	V_{DC}		
RMS Voltage	V_{RMS}	35	V
Average Rectified Forward Current	$I_{F(AV)}$	1×15	A
Non Repetitive Peak Surge Current	I_{FSM}	280	A
Thermal Resistance Junction to Case <small>Note 1</small>	R_{JC}	73	/W
Junction and Storage Temperature Range	T_j T_{stg}	-40 +150	

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Breakdown Voltage	V_{BR}	$I_R=1mA(T_a=25^\circ C)$	50			V
Forward Voltage	V_F	$I_F=3A(T_a=25^\circ C)$		0.33	0.42	V
		$I_F=3A(T_a=125^\circ C)$		0.22	0.28	V
		$I_F=15A(T_a=25^\circ C)$		0.45	0.47	V
		$I_F=15A(T_a=125^\circ C)$		0.40	0.45	V
Instantaneous Reverse Current	I_R <small>Note 2</small>	$V_R=50V(T_a=25^\circ C)$		80	150	μA
		$V_R=50V(T_a=100^\circ C)$			30	mA
		$V_R=50V(T_a=125^\circ C)$			50	mA

&Notes

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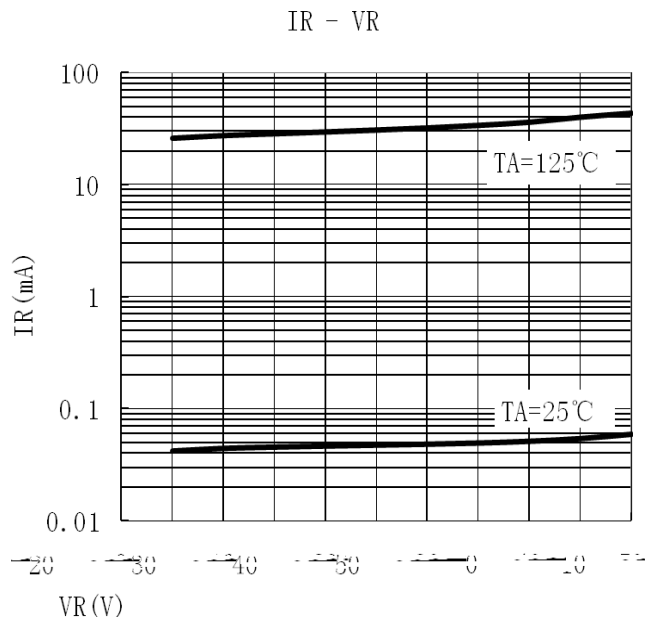
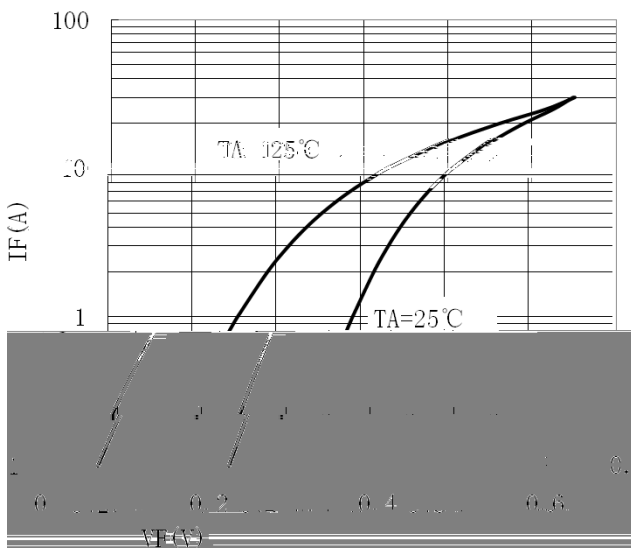
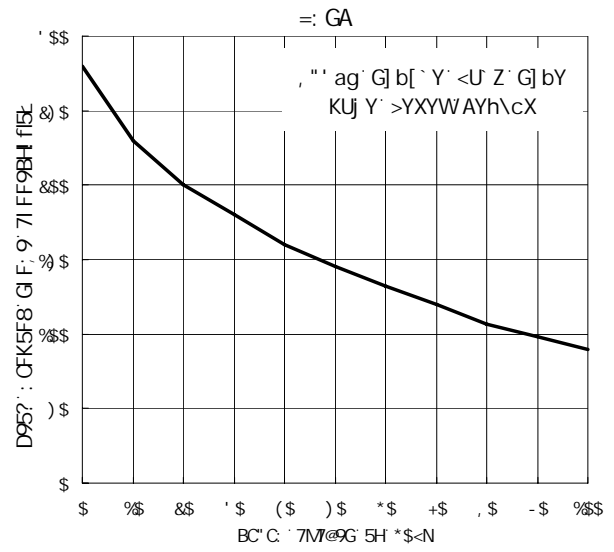
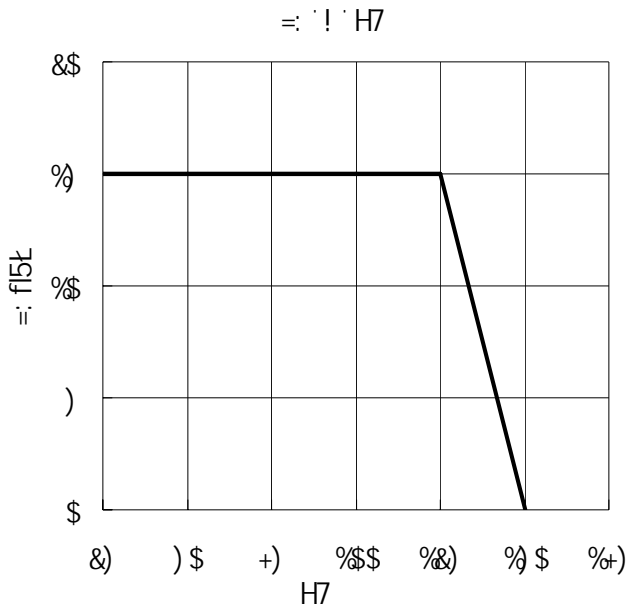
FR-4 PCB, 2oz. Copper, minimum recommended pad layout per.

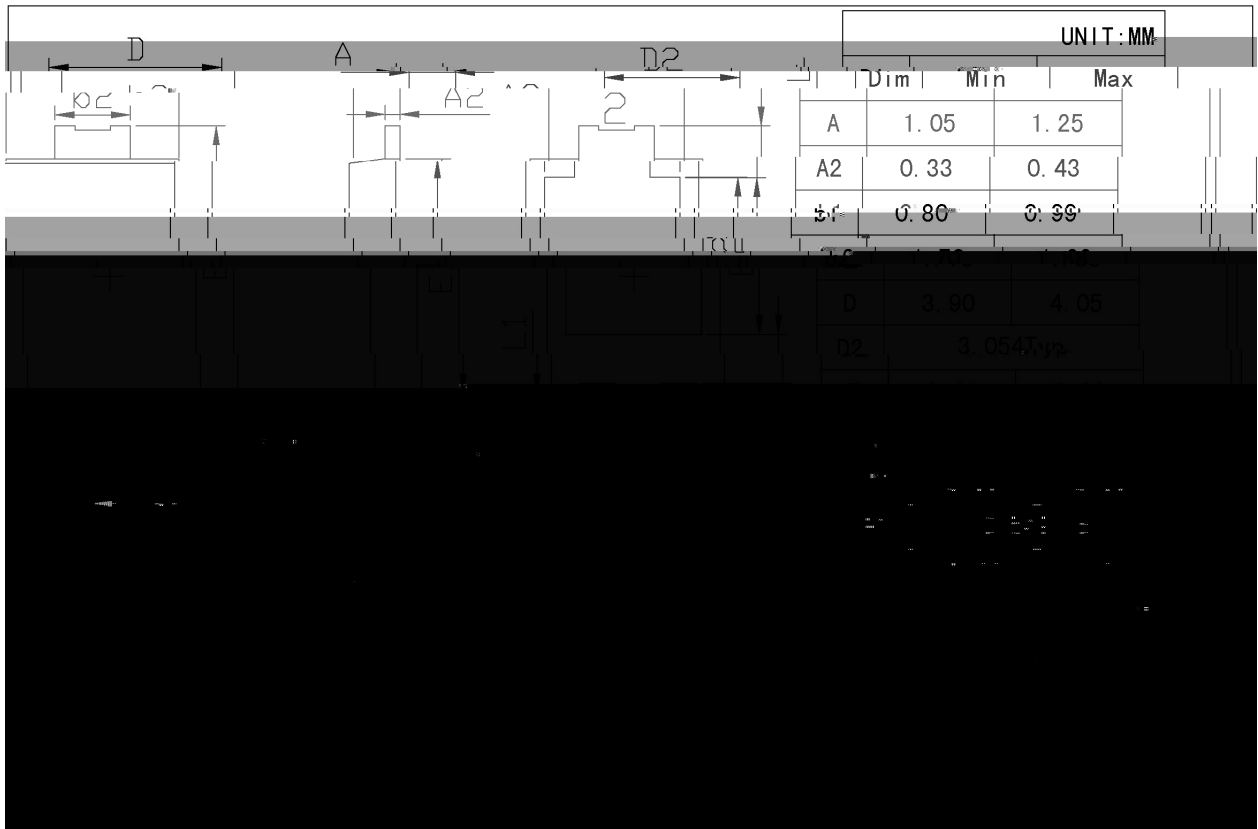
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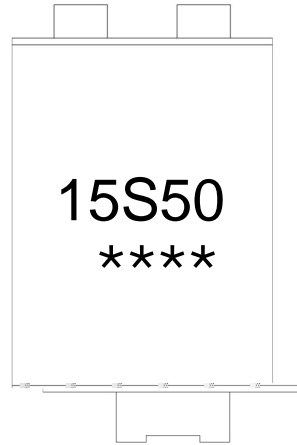
Short duration pulse test used to minimize self-heating effect.

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Unless otherwise noted, values for the parameters of a single chip







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Note:

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Product Type.

Lot No. Code, code change with Lot No.



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

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

/ REEL

Packaging Type 封装	Units 数量			Dimension 尺寸 (unit: mm ³)	
	Units/Reel 盘	Units/Inner Box 盒	Units/Outer Box 箱	Reel	Inner Box 盒 Outer Box 箱