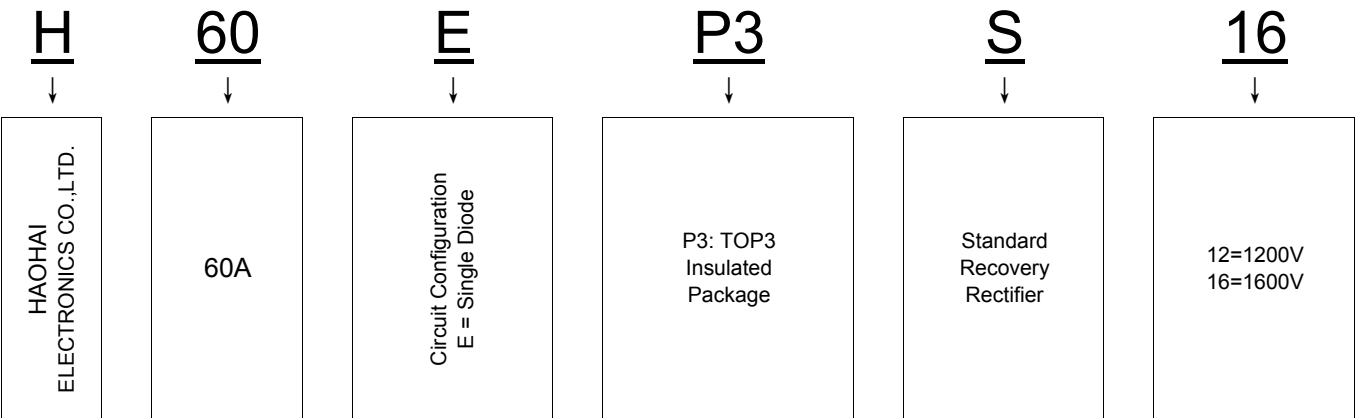


<p>DESCRIPTION</p> <p>The H60EP3S... rectifier series has been optimized for very low forward voltage drop, with moderate leakage. The glass passivation technology used has reliable operation up to 150°C junction temperature. Typical applications are in input rectification and these products are designed to be used with International Rectifier Switches and Output Rectifiers which are available in identical package outlines.</p> <p>TOP3 Insulated Package</p>	<p>产品特征</p> <p>对非常低的正向压降进行了优化 玻璃钝化技术、高达150°C结温的可靠工作</p> <p>主要用途</p> <p>自动化电气设备；开关电源 无功补偿；复合开关 交流电开关；交流/直流电源变换 输入整流、输出整流、整流器开关、逆变电源 封装外形: TOP3 绝缘型封装</p>
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■ Product Model Reference & Naming 【产品型号参考及型号命名】

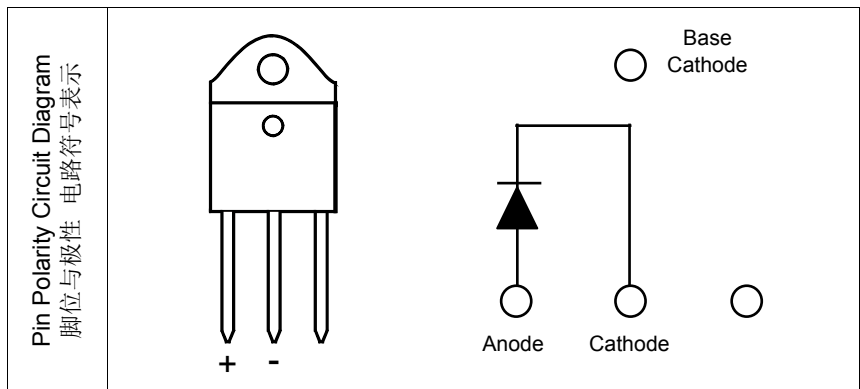
Insulated Package

60A	产品型号列表、种类区分、型号对照电压值	
	1200V	1600V
TOP3 绝缘型	H60EP3S12	H60EP3S16
说明	标准品种	高压品种



■ PINNING: Insulated Package

Pin	Symbol	Description
1	Anode	阳极
2	Cathode	阴极
3		
4	Tab	散热片



■ Voltage Ratings

Part Number	V_{RRM} , maximum peak reverse voltage	V_{RSM} , maximum peak reverse voltage	I_{RRM} 150°C
H60EP3S06	600V	700V	1 mA
H60EP3S08	800V	900V	
H60EP3S10	1000V	1100V	
H60EP3S12	1200V	1300V	
H60EP3S16	1600V	1700V	

■ Absolute Maximum Ratings

SYMBOL	Parameters / Conditions		Value	Units
$I_{F(AV)}$	Max. Average Forward Current	$T_C=118^\circ\text{C}$	60	A
I_{FSM}	Max. Peak One Cycle Non-Repetitive Surge Current	rated V_{RRM} applied	950	
		no voltage reapplied	1100	
I^2t	Max. I^2t for fusing	rated V_{RRM} applied	4512	A ² S
		no voltage reapplied	6300	

■ Electrical Specifications

SYMBOL	Parameters / Conditions		Value	Units
I_{FM}	Max. Forward Voltage Drop	@60A, $T_J=25^\circ\text{C}$	1.07	V
$I_{F(TO)}$	Threshold voltage	$T_J=105^\circ\text{C}$	0.74	
r_t	Forward slope resistance	$T_J=105^\circ\text{C}$	3.96	mΩ
R_{RM}	Max. Reverse Leakage Current	$T_J=25^\circ\text{C}$	0.1	mA
		$T_J=150^\circ\text{C}$	1.0	

■ Thermal-Mechanical Specifications

SYMBOL	Parameters / Conditions		Value	Units
T_J	Max. Junction Temperature Range		-40~150	°C
T_{stg}	Max. Storage Temperature Range		-40~150	
R_{thJC}	Max. Thermal Resistance Junction to Case	DC operation	0.35	°C/W
R_{thJA}	Max. Thermal Resistance Junction to Ambient		40	
R_{thCS}	Typical Thermal Resistance, Case to Heatsink	Mounting surface, smooth and greased	0.2	

Electrical characteristics & Typical characteristics (电气特性与典型特征)

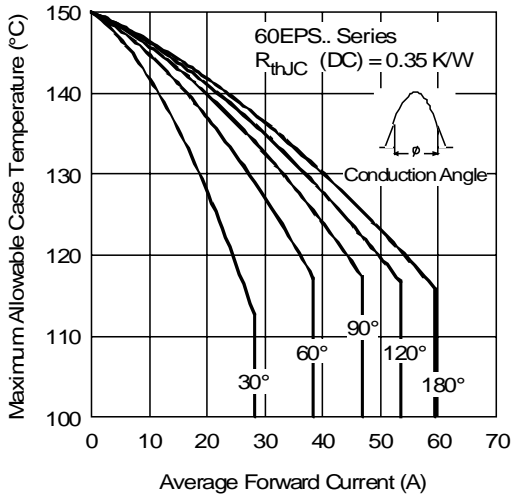


Fig. 1 - Current Rating Characteristics

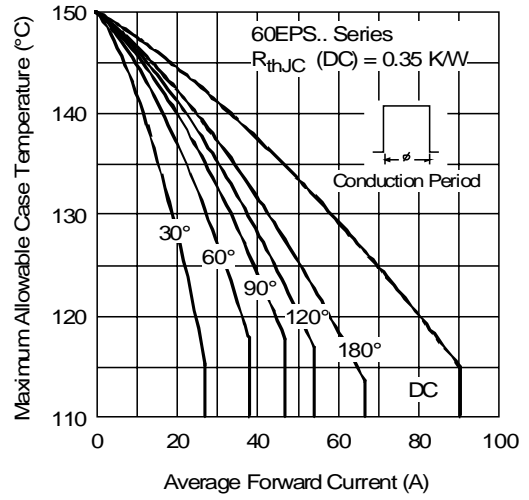


Fig. 2 - Current Rating Characteristics

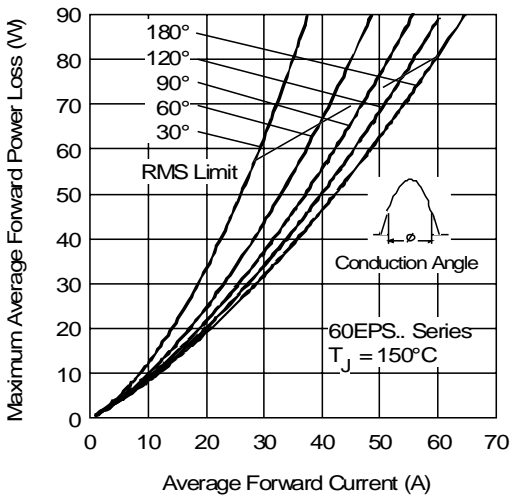


Fig. 3 - Forward Power Loss Characteristics

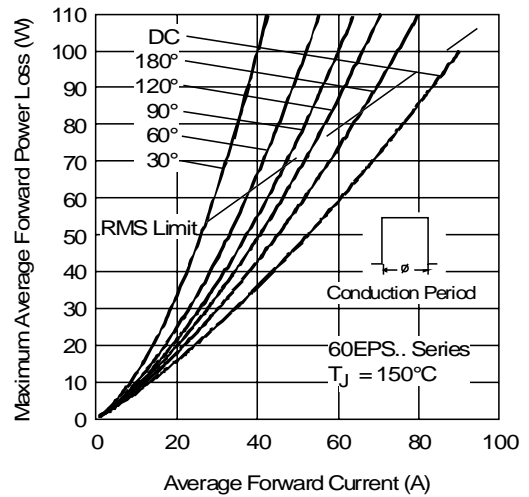


Fig. 4 - Forward Power Loss Characteristics

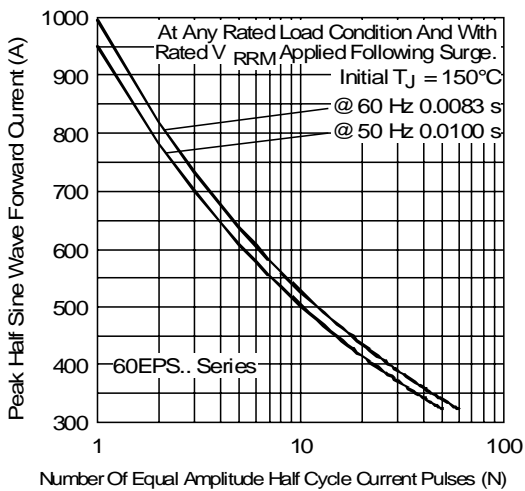


Fig. 5 - Maximum Non-Repetitive Surge Current

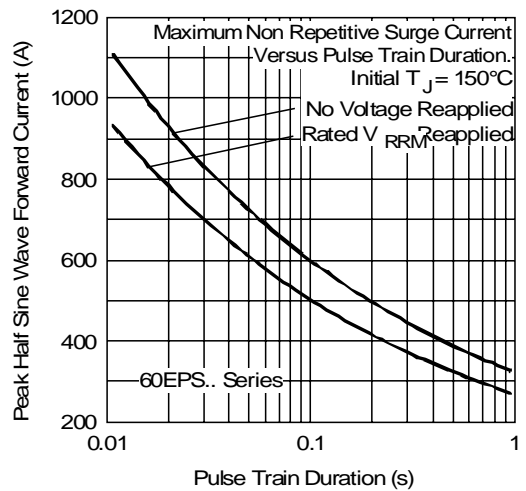


Fig. 6 - Maximum Non-Repetitive Surge Current

Electrical characteristics & Typical characteristics (电气特性与典型特征)

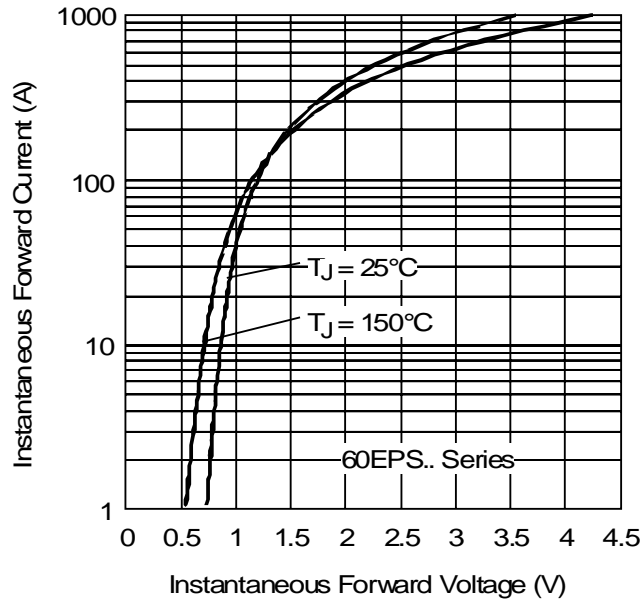


Fig. 7 - Forward Voltage Drop Characteristics

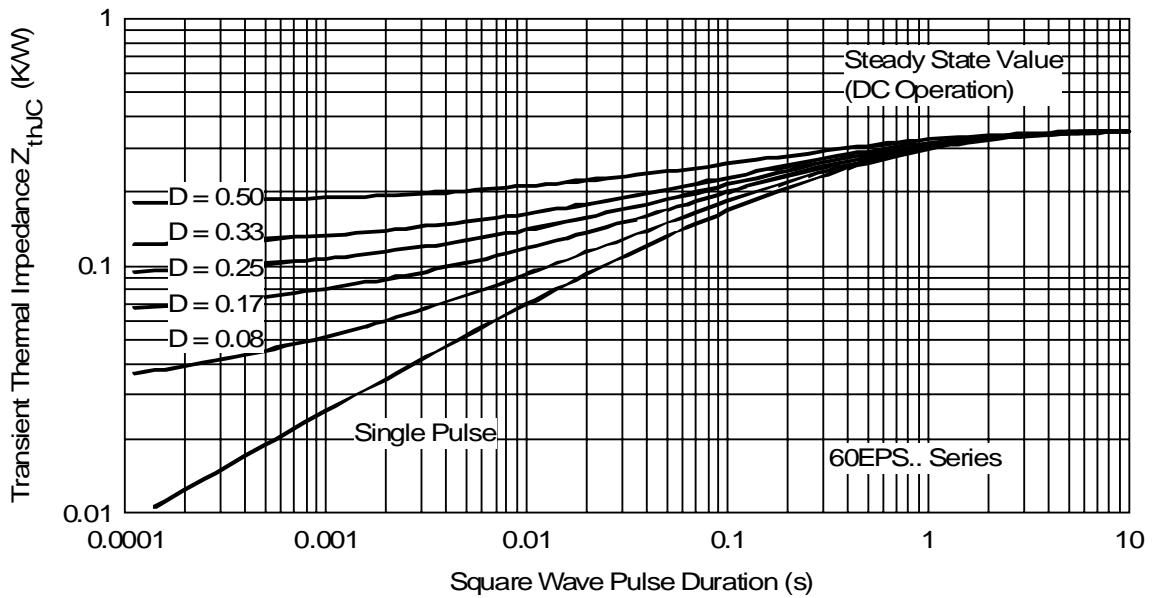
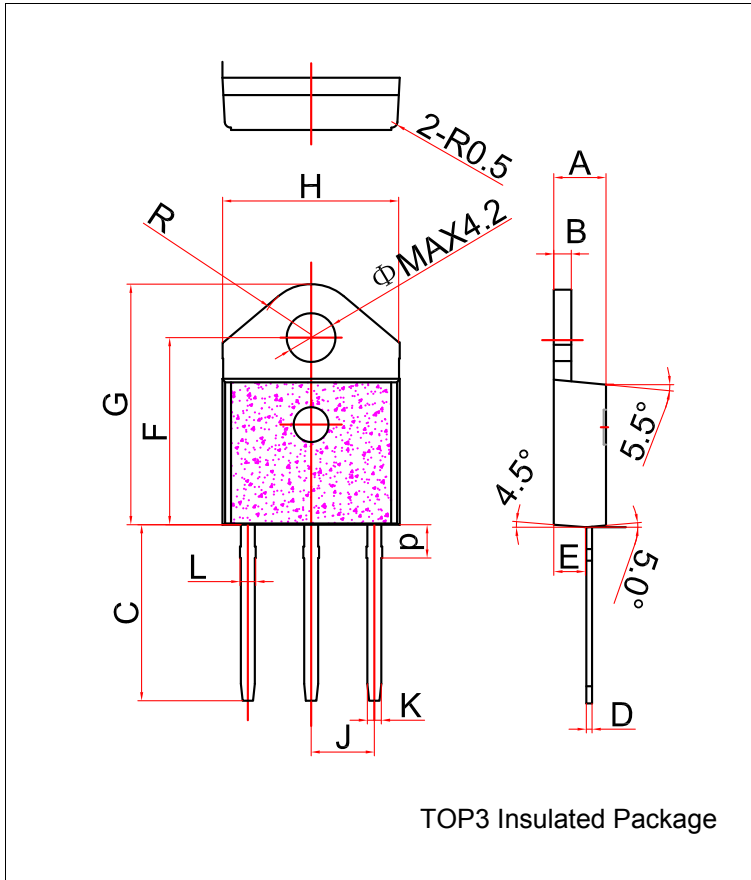


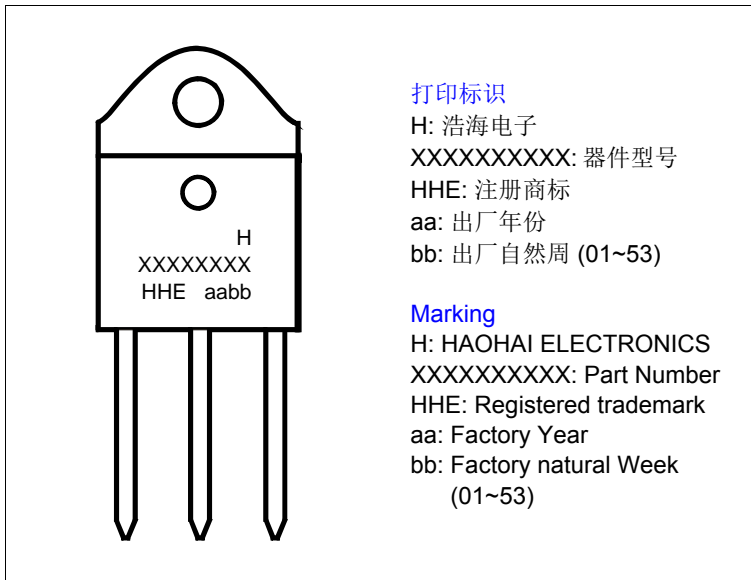
Fig.8-Thermal Impedance Z_{thJC} Characteristics

TOP3 PACKAGE MECHANICAL DATA (mm & inch)



TOP3 封装尺寸数据 (毫米与英寸对照)

REF	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.40	4.60	0.173	0.181
B	1.45	1.55	0.057	0.061
C	14.35	15.6	0.565	0.614
D	0.50	0.70	0.020	0.028
E	2.70	2.90	0.106	0.114
F	15.8	16.5	0.622	0.650
G	20.4	21.1	0.815	0.831
H	15.1	15.5	0.594	0.610
J	5.40	5.65	0.213	0.222
K	1.20	1.40	0.047	0.055
L	1.35	1.50	0.053	0.059
P	2.80	3.00	0.110	0.118
R	4.6		0.181	



包装规格

TOP3: 条管装、纸盒装
每管30只
每盒450只
每箱3600只

Packaging Specifications

TOP3 Plastic tube
30Pcs/Tub
450cs/BOX
3600Pcs/Cartons

Manufacturers version information

2012-04-25, HAOHAI™ Product Data-1.1

2014-06-10, HAOHAI™ Product Data-1.2

2017-11-25, HAOHAI™ Product Data-1.3



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