



**Micro Commercial Components** 



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# SMD12HE **THRU** SMD120HE

# 1 Amp

# Schottky Rectifiers 20 - 200 Volts

# SOD-123HE

DIMENSIONS								
DIM	INCHES		MM		NOTE			
	MIN	MAX	MIN	MAX				
Α	.140	.156	3.55	3.95				
В	.100	.112	2.55	2.85				
С	.035	.043	0.90	1.10				
D	.067	.075	1.70	1.90				
Е	.028	.035	0.70	0.90				
F	.004	.008	0.10	0.20				
G	.001	.002	0.02	0.05				
Н	.067	.098	1.70	2.50				
J	.016	.047	0.40	1.20				

# **Features**

- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1)("P"Suffix designates Compliant. See ordering information)
- High surge forward current capability
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Operating Temperature:SMD12HE~SMD14HE: -55°C to +125°C SMD15HE~SMD120HE: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 15°C/W Junction to Lead

MCC Catalog	Device Marking	Maximum Recurrent	Maximum RMS	Maximum DC
Number		Peak Reverse Voltage	Voltage	Blocking Voltage
SMD12HE	S12L	20V	14V	20V
SMD13HE	S13L	30V	21V	30V
SMD14HE	S14L	40V	28V	40V
SMD15HE	S15L	50V	35V	50V
SMD16HE	S16L	60V	42V	60V
SMD18HE	S18L	80V	56V	80V
SMD110HE	S110L	100V	70V	100V
SMD115HE	S115L	150V	105V	150V
SMD120HE	S120L	200V	140V	200V

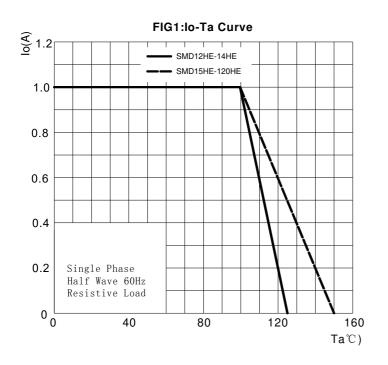
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>a</sub> =100°C
Peak Forward Surge Current	I <sub>FSM</sub>	30A	8.3ms, half sine
Maximum	VF		
Instantaneous	12~14	0.50V	$I_{FM} = 2.0A;$
Forward Voltage	15~16	0.70V	
	18~110	0.85V	T <sub>a</sub> =25°C
	115~120	0.90V	
Maximum DC			
Reverse Current At	$I_R$	0.5mA	T <sub>a</sub> = 25°C
Rated DC Blocking			
Voltage			

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7.



# **Characteristics(Typical)**



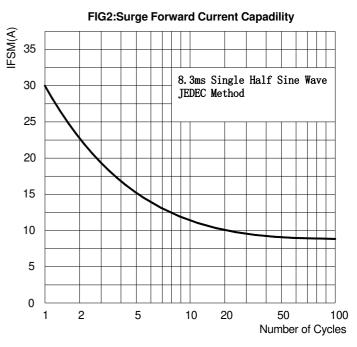


FIG3: Forward Voltage

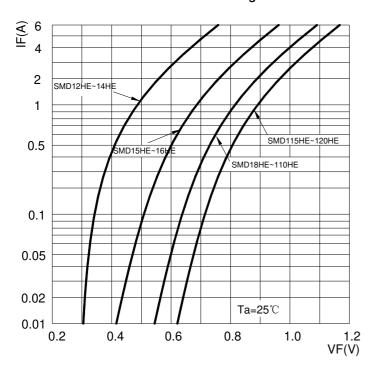
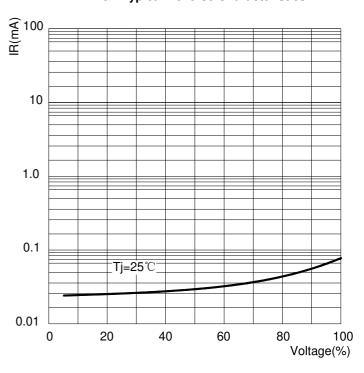


FIG4:Typical Reverse Characteristics





# **Ordering Information:**

Device	Packing	
Part Number-TP	Tape&Reel: 3 Kpcs/Reel	

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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