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HSMA120 thru HSMA1100

Schottky Barrier Rectifiers (Reverse Voltage 20 to 100V, Forward Current 1A)

Features

- For surface mounted applications
- Metal-Semiconductor junction with guardring
- Epitaxial construction
- Very low forward voltage drop
- High Current Capability
- Plastic material has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters free wheeling And polarity orotection applications



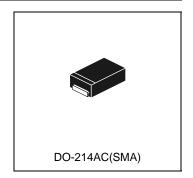
• Package: JEDEC DO-214AC(SMA) molded plastic

Polarity: Indicated by cathode bandWeight: 0.002 ounce, 0.064 gram



Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load. Derate current by 20%.

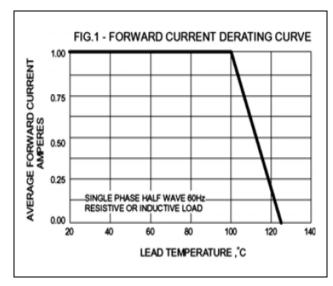
Ratings	Symbol	HSMA 120	HSMA 130	HSMA 140	HSMA 150	HSMA 160	HSMA 170	HSMA 180	HSMA 190	HSMA 1100	Unit
Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	V
Surge Peak Reverse Voltage	V_{RSM}	14	21	28	35	42	49	56	63	70	V
DC Blocking Voltage	V_{DC}	20	30	40	50	60	70	80	90	100	V
Average Forward Rectified Current (T _L =100°C)	I _{FAV}	1					Α				
Peak Forward Surge Current, 50Hz Half Sine-wave (T _A =25°C)	I _{FSM}	30					Α				
Instantaneous Forward Voltage	V_{F}	0.50 0.70			0.79(0.69@ T _j =100°C)			V			
Leakage Current (T _J =25°C, V _R =V _{RRM})		0.5					mA				
Leakage Current (T _J =100°C, V _R =V _{RRM})	I _R	10.0			5.0				mA		
Typical Junction Capacitance	CJ	110			30				pF		
Thermal Resistance Junction to Lead	$R_{\theta JL}$	30			25				30		
Operating Junction Temperature Range	TJ	-55 to +125					°C				
Storage Temperature Range	T _{STG}	-55 to +150				°C					

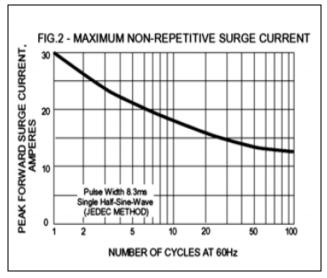


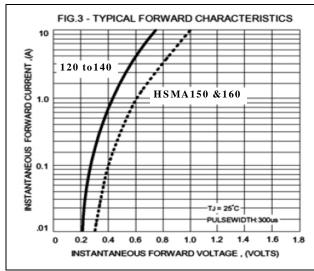
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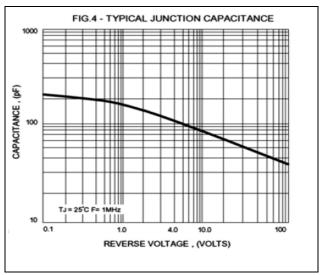
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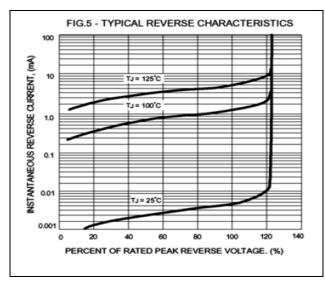
Characteristics Curve(HSMA120 to HSMA160)







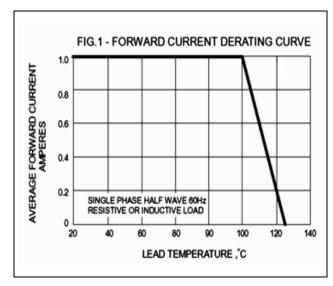


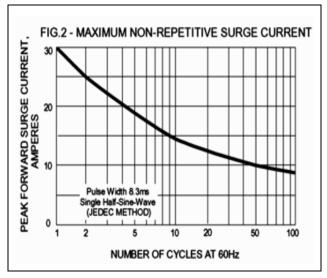


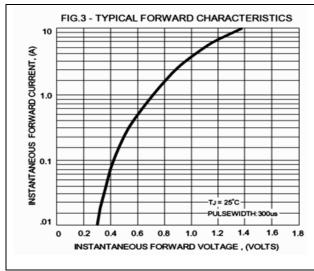
Spec. No.: HSMA2009021 Issued Date: 2009.03.05

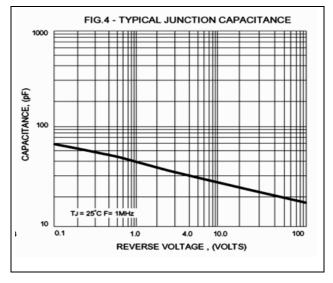
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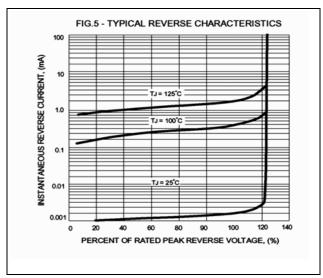
Characteristics Curve(HSMA170 to HSMA1100)







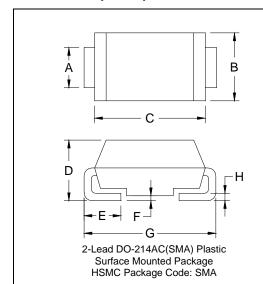


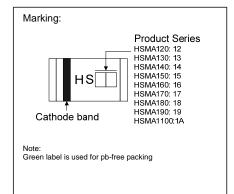


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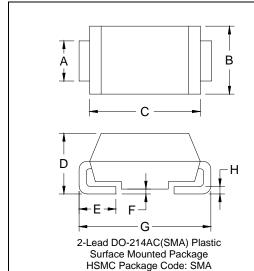
DO-214AC(SMA) Dimension

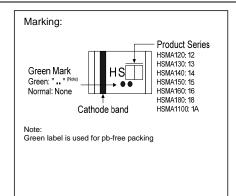




DIM	Min.	Max.
Α	1.27	1.63
В	2.40	2.65
С	4.00	4.60
D	1.90	2.25
Е	0.80	1.50
F	0.10	0.20
G	4.80	5.20
Н	0.15	0.31

Unit: mm





DIM	Min.	Max.
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Unit: mm

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