S3AC THRU S3MC

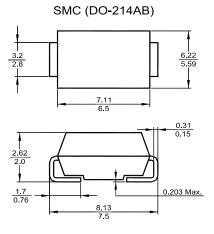
Surface Mount General Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 3 A

Features

- The plastic package carries UL flammability classification 94 V-0
- High forward surge current capability
- Low reverse current

Mechanical Data

- Case: SMC (DO-214AB) molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, method
- · Polarity: color band denotes cathode end



Dimensions in millimeters

Maximum Ratings and Characteristics

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%.

Parameter	Symbols	S3AC	S3BC	S3DC	S3GC	S3JC	S3KC	S3MC	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current at T_L = 75 °C	I _{F(AV)}	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	100							A
Maximum Forward Voltage at I _F = 3 A	VF	1.15							V
Maximum DC Reverse Currentat $T_A = 25 \circ C$ at Rated DC Blocking Voltageat $T_A = 125 \circ C$	I _R	10 250							μA
Typical Junction Capacitance ¹⁾	CJ	60							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	53						°C/W	
Typical Thermal Resistance 2)	R _{θJL}	16							°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	- 55 to + 150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V.

²⁾ P.C.B mounted with 0.27" X 0.27" (7 X 7 mm) copper pad areas



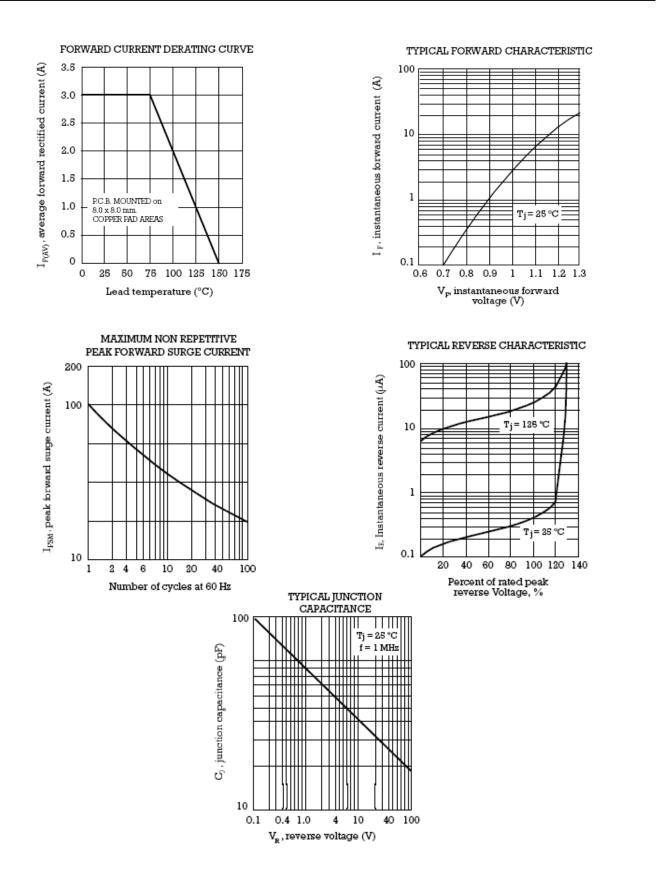
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Dated : 29/04/2010 G Rev:01





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