S5A THRU S5M

Surface Mount General Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 5 A

Features

- The plastic package carries Underwrites Laboratory flammability classification 94V-0
- · For surface mounted applications
- · Low reverse leakage
- Built-in strain relief, ideal for automated placement
- · High forward surge current capability

Mechanical Data

• Case: JEDEC DO-214AB molded plastic body

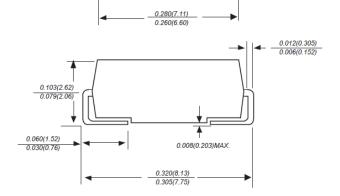
 Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

· Polarity: Color band denotes cathode end

• Mounting position: Any

0.126 (3.20) 0.114 (2.90) 0.20(5.59)

SMC (DO-214AB)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

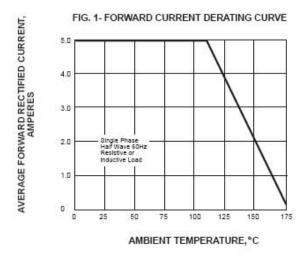
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

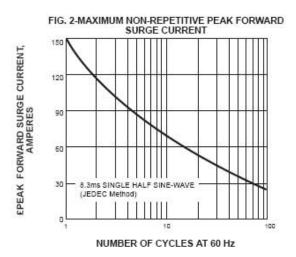
Single phase nan-wave of riz, resistive of inductive load, for capacitive load current defate by 20 76.									
December	Symbols	S5A	S5B	S5D	S5G	S5J	S5K	S5M	Units
Parameter	Marking	S5A	S5B	S5D	S5G	S5J	S5K	S5M	-
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS 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 = 110 °C	I _{F(AV)}	5						Α	
Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	150							А
Maximum Forward Voltage at I _F = 5 A	V _F	1						V	
Maximum DC Reverse Current at $T_a = 25$ °C at Rated DC Blocking Voltage at $T_a = 100$ °C	I _R	5 100							μА
Typical Junction Capacitance 1)	C _j	120							pF
Typical Thermal Resistance 2)	$R_{\theta JA}$	80							°C/W
Operating and Storage Temperature Range	T _j , T _{stg}	- 65 to + 150							°C

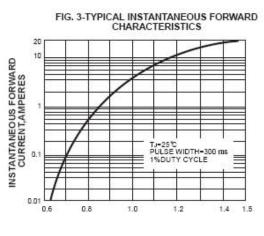
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

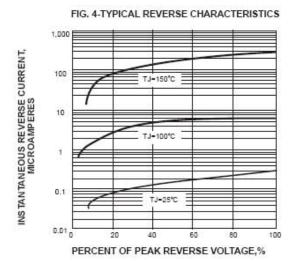


 $^{^{2)}\}mbox{P.C.B}$ mounted with 0.4 X 0.4" (10 X 10 mm) copper pad areas

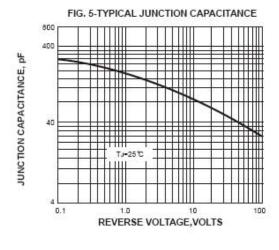


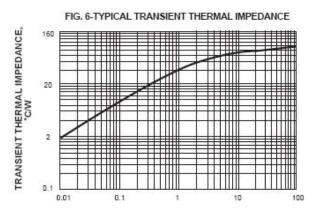












t,PULSE DURATION,sec.



Dated: 13/01/2017 TL Rev: 03