

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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S5AL THRU S5ML

5 Amp Silicon Rectifier 50 to 1000 Volts

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- For Surface Mount Applications
- Extremely Low Thermal Resistance
- High Current Capability
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1

Maximum Ratings

Operating Temperature: -55°C to +150°C
 Storage Temperature: -55°C to +150°C
 Thermal Resistance: 10°C/W Junction to Lead

18°C/W Junction to Case 50°C/W Junction to Ambient

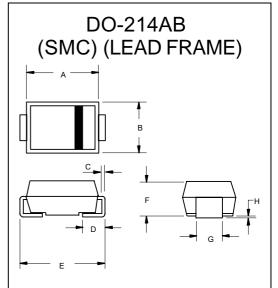
MCC		Maximum	Maximum	Maximum
Part	Device	Recurrent	RMS	DC
Number	Marking	Peak Reverse	Voltage	Blocking
		Voltage		Voltage
S5AL	S5AL	50V	35V	50V
S5BL	S5BL	100V	70V	100V
S5DL	S5DL	200V	140V	200V
S5GL	S5GL	400V	280V	400V
S5JL	S5JL	600V	420V	600V
S5KL	S5KL	800V	560V	800V
S5ML	S5ML	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

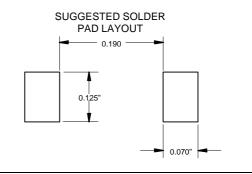
Average Forward Current	I _{F(AV)}	5.0A	T _L = 75°C
Peak Forward Surge Current	I _{FSM}	100A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V _F	1.20V	$I_{FM} = 5.0A;$ $T_a = 25^{\circ}C^{*}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	10μA 1mA	T _a = 25°C T _a = 100°C
Typical Junction Capacitance	С	100pF	Measured at 1.0MHz, V _R =4.0V

^{*}Pulse test: Pulse width 200 µsec, Duty cycle 2%

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



DIMENSIONS							
	INCHES		MM				
DIM	MIN	MAX	MIN	MAX	NOTE		
Α	.260	.280	6.60	7.11			
В	.220	.245	5.59	6.22			
С	.006	.012	0.15	0.31			
D	.030	.060	0.76	1.52			
E	.305	.320	7.75	8.13			
F	.079	.103	2.00	2.62			
G	.108	.128	2.75	3.25			
Н	.002	.008	0.050	0.203			

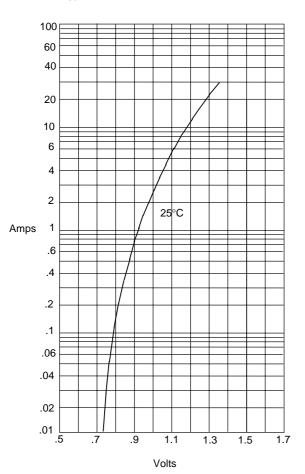


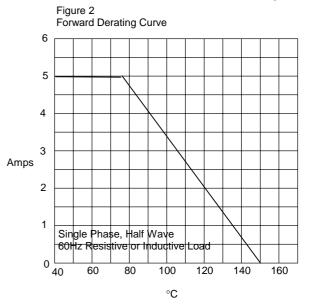
S5AL thru S5ML

Figure 1
Typical Forward Characteristics



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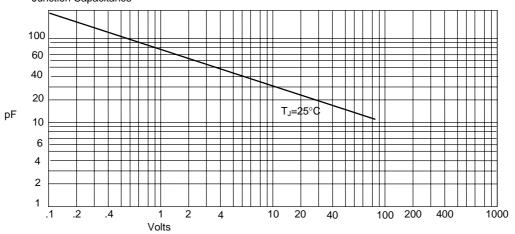




Average Forward Rectified Current - Amperes versus Lead Temperature - $^{\circ}\text{C}$

Instantaneous Forward Current - Amperes *versus* Instantaneous Forward Voltage - Volts

Figure 3
Junction Capacitance



Junction Capacitance - pF *versus* Reverse Voltage - Volts



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Ordering Information:

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

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