

S300BM(R) **THRU** S300YM(R)

STANDARD RECOVERY DIODE STUD TYPES

Features

High Surge Capability Types up to 1600V VRRM

Maximum Ratings

Operating Temperature: -55°C to +175°C Storage Temperature : -55°C to +175°C

Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
S300BM(R)	100V	70V	100V
S300DM(R)	200V	140V	200V
S300EM(R)	300V	212V	300V
S300GM(R)	400V	280V	400V
S300JM(R)	600V	420V	600V
S300KM(R)	800V	565V	800V
S300MM(R)	1000V	707V	1000V
S300QM(R)	1200V	848V	1200V
S300YM(R)	1600V	1131V	1600V

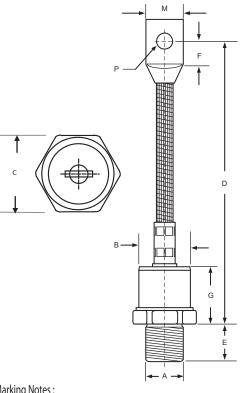
Electrical Characteristics @ 25 $^{\circ}$ C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	300 A	Tc=130°C
Maximum Peak Forward Surge Current	İfsm	6850A	8.3ms , half sine
Maximum Instantaneous Forward Voltage *	V _F	1.1V	$I_{FM} = 300A$. $T_J = 25 ^{\circ}C'$
Maximum Instantaneous Reverse Current At Rated DC Blocking Voltage	I _R	25 μA 12mA	TJ=25 ℃ TJ=175 ℃
Maximum Thermal Resistance Junction To Case	R ₀ jc	0.28 °C/W	
Mounting torque (+0 -10%)	Inch pounds (in-lb)	270	
Weight		215g	

^{*}Pulse Test: Pulse Width 300 μ sec. Duty Cycle < 2%

300 Amp Rectfifier 100-1600 Volts

DO-9 (DO-205AB)



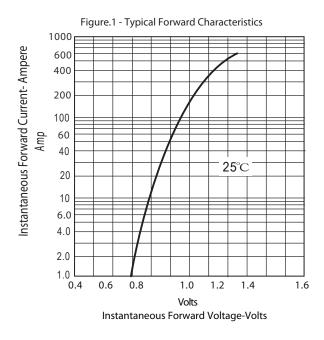
Marking Notes:

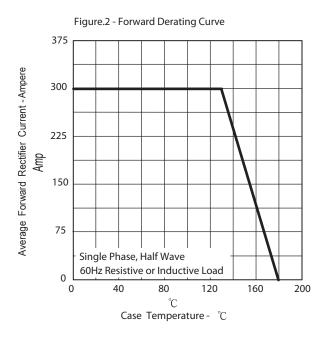
1.Suffix with "R" = Stud Reverse Polarity: Anode to stud 2.None = Stud normal polarity : Cathode to stud

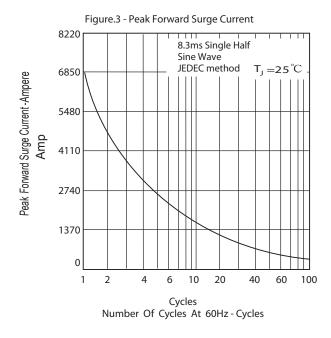
DIM	Inches		Millimeters			
	Min	Max	Min	Max		
А	M 20 * P 1.5					
В		1.100		27.94		
С	1.240	1.250	31.50	31.90		
D	5.310	5.980	135	152		
Е	0.780	0.828	19.60	21.03		
F	0.470	0.530	11.94	13.46		
G		1.122		28.50		
М		0.787		20.00		
Р	0.330	0.350	8.38	8.89		

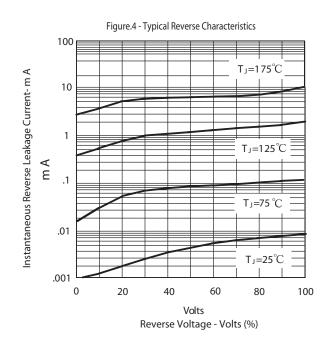


DACO SEMICONDUCTOR CO., LTD. S300BM(R) THRU S300YM(R)









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