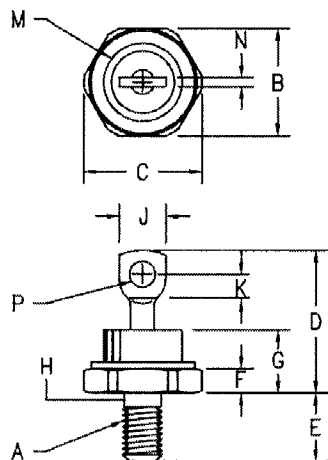


Silicon Power Rectifier S/R37 Series



Notes:

1. 1/4-28 3A
2. Full threads within 2 1/2 threads
3. Standard polarity:
Stud is cathode
Reverse polarity:
Stud is anode

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	---	---	---	---	1
B	.667	.687	16.95	17.44	
C	---	.793	---	20.14	
D	---	1.00	---	25.40	
E	.422	.453	10.72	11.50	
F	.115	.200	2.93	5.08	
G	---	.450	---	11.43	
H	.220	.249	5.59	6.32	2
J	.250	.375	6.35	9.52	
K	.156	---	3.97	---	
M	---	.667	---	16.94	Dia
N	---	.080	---	2.03	
P	.140	.175	3.56	4.44	Dia

D0203AB (D05)

Catalog Number	Standard	Reverse	Peak Reverse Voltage
S3720	R3720		200V
S3740	R3740		400V
S3760	R3760		600V
S3780	R3780		800V
S37100	R37100		1000V
S37120	R37120		1200V
S37140	R37140		1400V
S37160	R37160		1600V

- Glass Passivated Die
- 1500 Amps Surge Rating
- Glass to metal seal construction
- VRRM to 1600V
- Excellent reliability

Electrical Characteristics

Average forward current	IF(AV) 85 Amps	TC = 147°C, Half Sine Wave, R θJC = 0.6°C/W
Maximum surge current	IFSM 1500 Amps	8.3ms, half sine, TJ = 200°C
Max I ² t for fusing	I ² t 9300 A ² s	
Max peak forward voltage	VFM 1.15 Volts	IFM = 200A: TJ = 25°C*
Max peak reverse current	IRM 25 μA	VRRM, TJ = 25°C
Max peak reverse current	IRM 2.0 mA	VRRM, TJ = 150°C
Max Recommended Operating Frequency	10kHz	

*Pulse test: Pulse width 300 μsec. Duty cycle 2%

Thermal and Mechanical Characteristics

Storage temperature range	TSTG	-65°C to 200°C
Operating junction temp range	TJ	-65°C to 200°C
Maximum thermal resistance	RθJC	0.6°C/W junction to case
Typical thermal resistance (greased)	RθCS	0.5°C/W case to sink
Mounting torque		25-30 inch pounds
Weight		.6 ounces (17 grams) typical