

TECHNICAL DATA SHEET



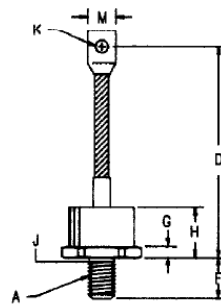
R43140 Standard Silicon Rectifier

The AMS rectifier diodes are designed with highly reliable metal/glass construction. Made to meet or exceed industry specifications.

FEATURES: <ul style="list-style-type: none"> - Glass passivated die - Glass to metal construction - 2500 Amp Surge rating - Vrrm available to 1400V 	Applications: <ul style="list-style-type: none"> - Medium voltage rectifier used in power applications - Welding equipment - Lamp dimming - Motor control
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Item	Symbol	Unit	Conditions	Value
Peak Reverse Current	I_{RM}	μA	$T_a=25^\circ C$ V_{RRM}	200
Peak Reverse Current	I_{RM}	mA	$T_a=150^\circ C$ V_{RRM}	5.0
Peak Forward Voltage	V_{FM}	V	$T_a=25^\circ C$ $I_{FM}=200A$	1.1
Average Forward Current	I_{FAV}	A	Half-sine Wave, @ $T_c=148^\circ C$	150
Surge Forward Output Current	I_{FSM}	A	8.3mS @ Half-Sine wave T_j 200 °C	2500
Junction and Storage Temperature	T_{stg}	$^\circ C$		-65 to +200 °C
Max Recommended Operating Frequency		kHz		7.5
Mechanical Characteristics				
Max Thermal Resistance	$R_{\theta JC}$		0.35°C/W Case to Junction	
Mounting Torque	Inch pounds		80-100	
Weight	Ounces		2.75	

Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	----	----	----	----	1
B	1.050	1.060	26.67	26.92	
C	----	1.166	----	29.61	
D	4.30	4.70	109.22	119.38	
F	.610	.640	15.49	16.25	
G	.213	.233	5.41	5.66	
H	----	.745	----	18.92	
J	.344	.373	8.74	9.47	2
K	.276	.286	7.01	7.26	
M	.465	.515	11.81	13.08	
R	----	.850	----	21.59	Dia
T	1.426	----	36.22	----	
AA	.427	.437	10.84	11.09	
BB	----	----	----	----	3
CC	.407	----	10.33	----	



DO205AA (D08)

- Notes:
1. 3/8-24 UNF-3A
 2. Full threads within 2 1/2 threads
 3. Standard polarity: Stud is Cathode
Reverse polarity: Stud is Anode

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CERTIFICATE NO: 45325

