



SOLID STATE INC.

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SD41

Features

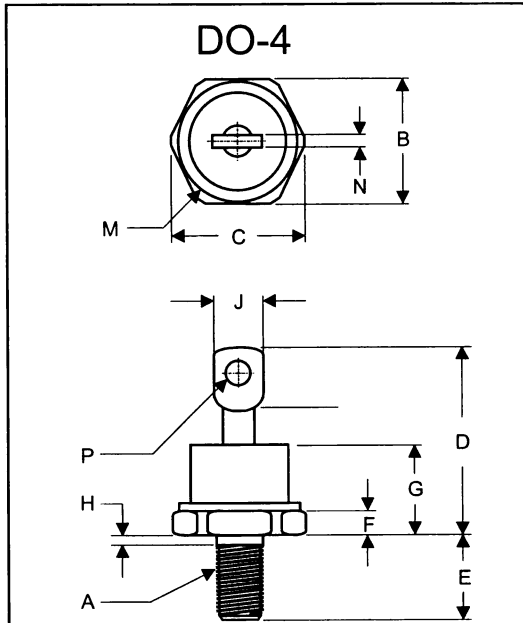
- Metal of siliconrectifier, majonty carrier conducton
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability

**25 Amp Schottky
Barrier Rectifier
45 Volts**

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SD41	45V		45V



Electrical Characteristics @ 25°C Unless Otherwise Specified

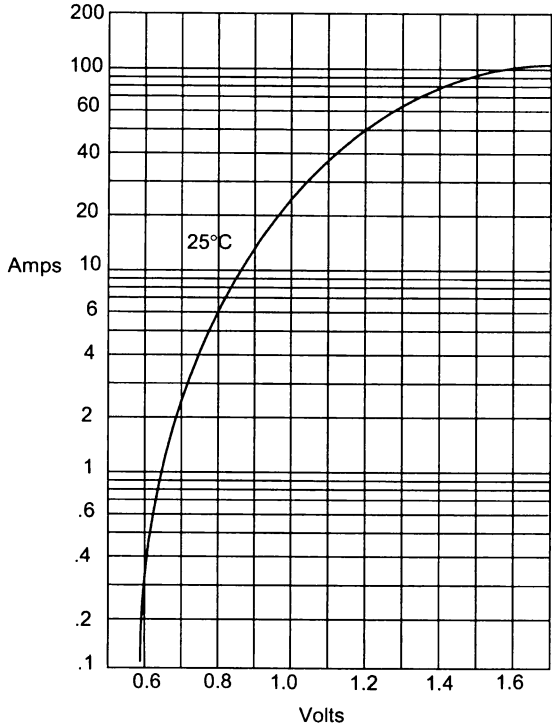
Average Forward Current	$I_{F(AV)}$	25 A	$T_L = 105^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.55V	$I_{FM} = 30 \text{ A};$ $T_A = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	20mA	$T_A = 125^\circ\text{C}$

DIM	DIMENSIONS					NOTE
	INCH		MM			
	MIN	MAX	MIN	MAX	Polarity	
A	10-32 UNF3A	Threads	Standard			
B	.424	.437	10.77	11.10		
C	---	.505	---	12.82		
D	.600	.800	15.24	20.32		
E	.422	.453	10.72	11.50		
F	.075	.175	1.91	4.44		
G	---	.405	---	10.29		
H	.163	.189	4.15	4.80		
J	---	.310	---	7.87		
M	---	.350	---	8.89		∅
N	.020	.065	0.51	1.65		
P	.060	.100	1.53	2.54		∅

*Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

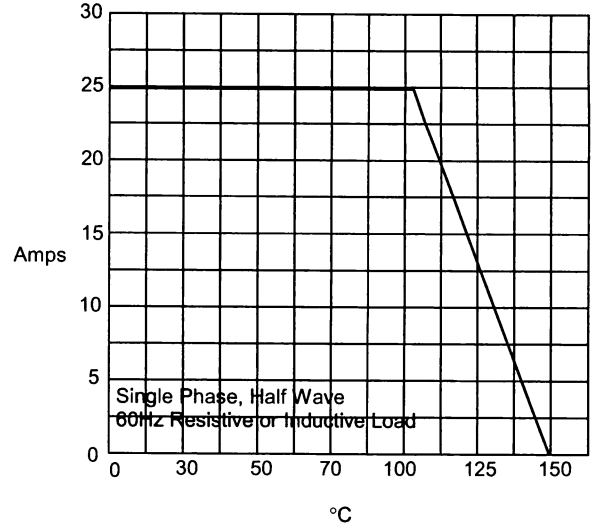
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Figure 1
Typical Forward Characteristics



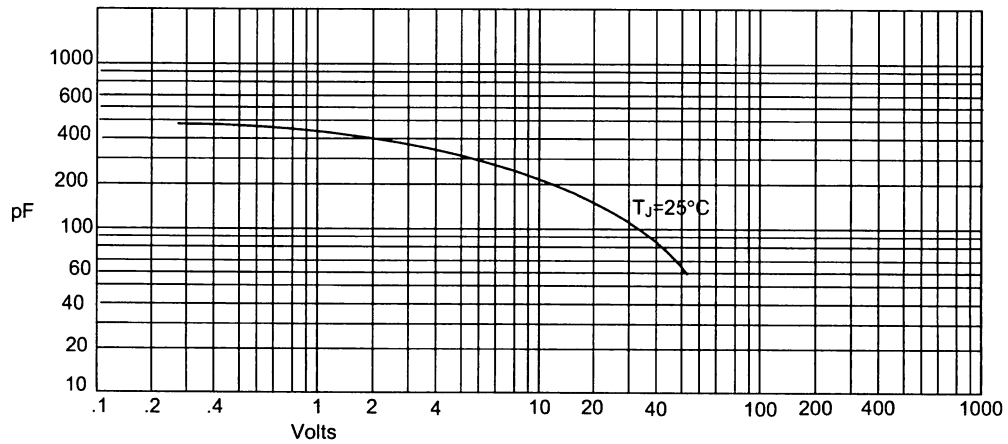
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

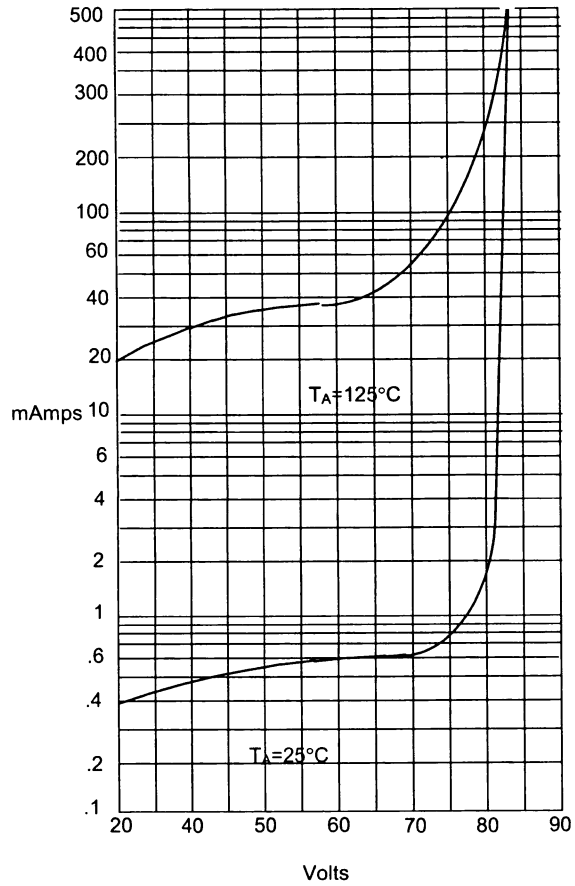
Figure 3
Junction Capacitance



Junction Capacitance - pF versus
Reverse Voltage - Volts

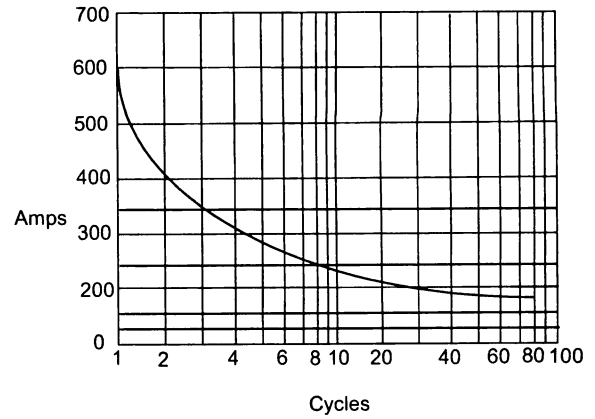
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Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - MicroAmperes versus
Percent Of Rated Peak Reverse Voltage - Volts

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles

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