



Micro Commercial Components
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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

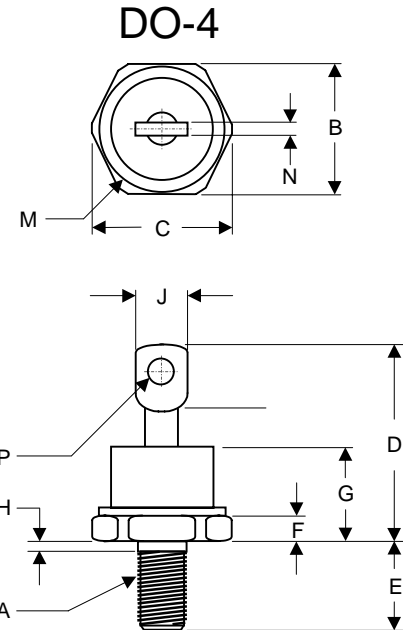
- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C

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

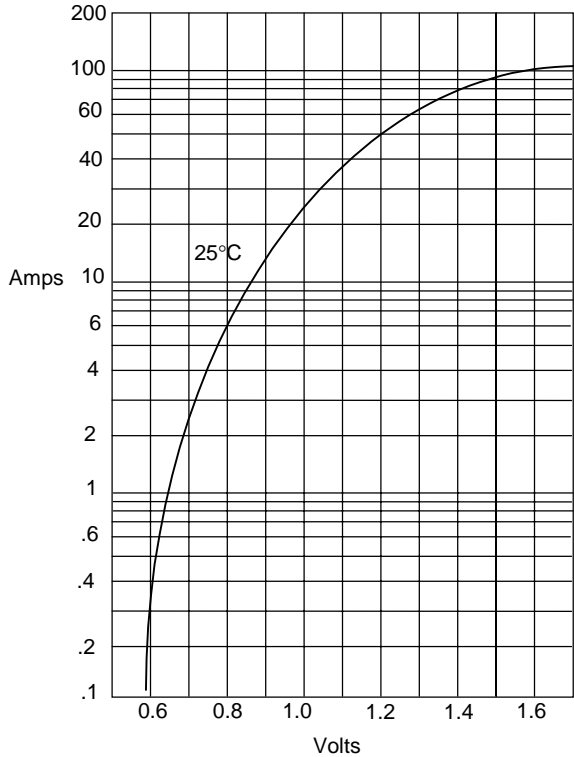
Average Forward Current	$I_{F(AV)}$	25 A	$T_L = 105^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	600A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.55V	$I_{FM} = 30\text{ A};$ $T_A = 125^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	20mA	$T_A = 125^\circ\text{C}$

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



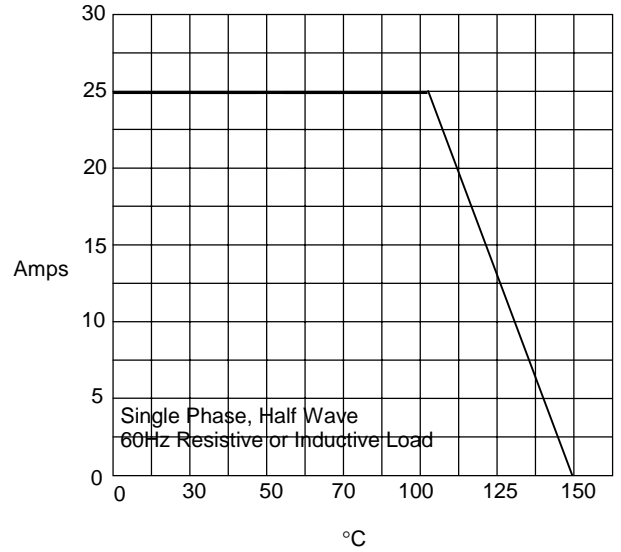
DIM	DIMENSIONS				NOTE
	INCH ES		MM		
	MIN	MAX	MIN	MAX	
A	10-32 UNF3A Threads		Standard	Polarity	
B	.424	.437	10.77	11.10	
C	-----	.505	-----	12.82	
D	.600	.800	15.24	20.32	
E	.422	.453	10.72	11.50	
F	.075	.175	1.91	4.44	
G	-----	.405	-----	10.29	
H	.163	.189	4.15	4.80	
J	-----	.310	-----	7.87	
M	-----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

Figure 1
Typical Forward Characteristics



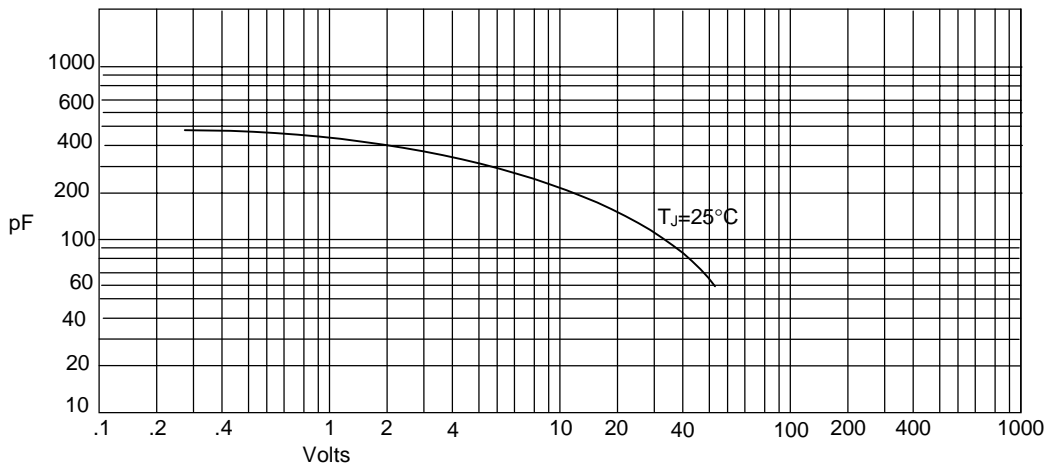
Instantaneous Forward Current - Amperes versus
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



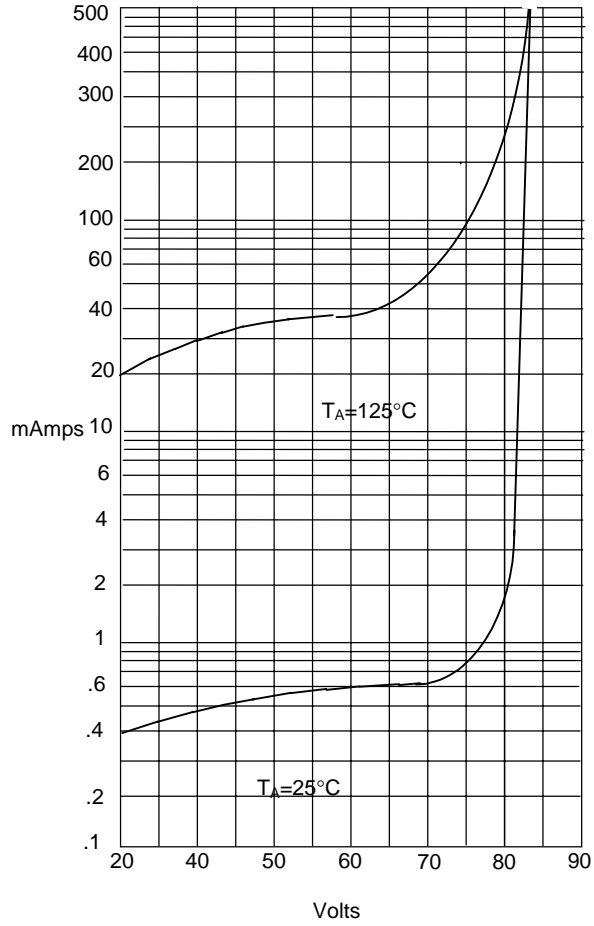
Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 3
Junction Capacitance

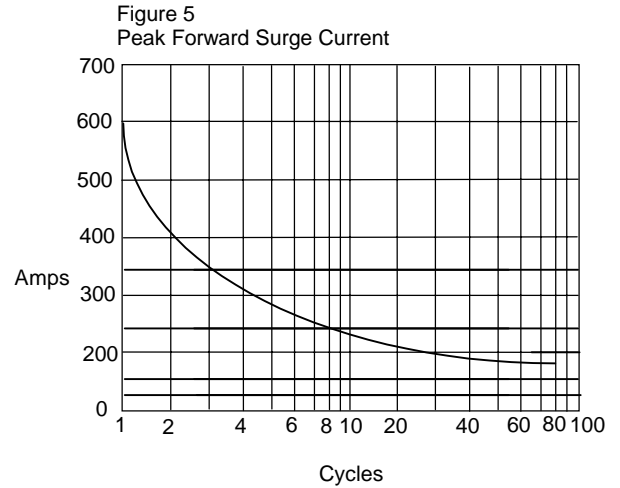


Junction Capacitance - pF versus
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



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



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