New Jersey Semi-Conductor Products, Inc.

20 STERN AVE. SPRINGFIELD, NEW JERSEY 07081 U.S.A.

D3SBA10 ~ D3SBA100

PRV: 100 ~ 1000 Volts

lo: 4.0 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- High reliability
- Low reverse current
- Low forward voltage drop
- * Ideal for printed circuit board
- * Very good heat dissipation
- * Pb / RoHS Free

MECHANICAL DATA:

- Case : Reliable low cost construction utilizing molded plastic technique
- * Epoxy : UL94V-0 rate flame retardant
- * Terminals : Plated lead solderable per
 - MIL-STD-202, Method 208 guaranteed
- * Polarity : Polarity symbols marked on case
- * Mounting position : Any
- * Weight: 4.28 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

RATING	SYMBOL	D3SBA10	D3SBA20	D3SBA40	D3SBA60	D3SBA80	D3SBA100	UNIT
Maximum Reverse Voltage	V _{RM}	100	200	400	600	800	1000	V
Maximum Average Forward Current (50Hz Sine wave, R-load)	I _{F(AV)}	4 (With heatsink, Tc = 108°C) 2.3 (Without heatsink, Ta = 25°C)						A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sinwave, Single Shot)	I _{FSM}	80						Α
Current Squared Time at 1ms ≤ t < 10 ms, Tc=25°C	l ² t	32						A ² S
Maximum Forward Voltage per Diode at IF = 2.0 A.	V _F	1.05						v
Maximum DC Reverse Current, VR=VRM (Pulse measurement, Rating of per diode)	I _R	10						μA
Maximum Thermal Resistance, Junction to case	R _{ejc}	5.5 (With heatsink)						°C/W
Maximum Thermal Resistance, Junction to Ambient	R _{eja}	30 (Without heatsink)						°C/W
Operating Junction Temperature Range	Tj	150						°C
Storage Temperature Range	T _{STG}	- 40 to + 150						°C



NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.

Quality Semi-Conductors

TELEPHONE: (973) 376-2922 (212) 227-6005 FAX: (973) 376-8960

SILICON BRIDGE RECTIFIER




