

8A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Features

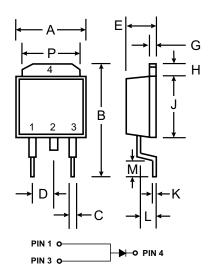
- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Very Low Forward Voltage Drop
- Surge Overload Rating to 150A Peak
- Plastic Material: UL Flammability Classification Rating 94V-0

Mechanical Data

Case: DPAK Molded Plastic

 Terminals: Solderable per MIL-STD-202, Method 208

Polarity: See DiagramMarking: Type NumberWeight: 0.4 grams (approx.)



DPAK			
Dim	Min	Max	
Α	6.3	6.7	
В	_	10	
С	0.3	0.8	
D	2.3 Nominal		
E	2.1	2.5	
G	0.4	0.6	
Н	1.2	1.6	
J	5.3	5.7	
K	0.5 Nominal		
L	1.3	1.8	
М	1.0	_	
Р	5.1	5.5	
All Dimensions in mm			

Note: Pins 1 & 3 must be electrically connected at the printed circuit board.

Maximum Ratings and Electrical Characteristics @ TA = 25°C unless otherwise specified

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SBD835L	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _R WM V _R	35	V
RMS Reverse Voltage	$V_{R(RMS)}$	25	V
Average Rectified Output Current @ T _C = 88°C	I _O	8	A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed on Rated Load (JEDEC Method)	lfsm	150	А
Forward Voltage (Note 2)	V_{FM}	0.51 0.41	V
Voltage Rate of Change	dv/dt	10,000	V/μs
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	I _{RM}	1.4 35	mA
Typical Junction Capacitance (Note 3)	C_{J}	300	pF
Typical Thermal Resistance Junction to Case (Note 1)	$R_{ heta JC}$	6	°C/W
Typical Thermal Resistance Junction to Ambient	$R_{ heta JA}$	80	°C/W
Operating Temperature Range	Tj	-65 to +125	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

Notes:

- 1. Thermal resistance: junction to case, unit mounted on PC board with 5.0 mm² (0.013 mm thick) copper pad as heat sink.
- 2. $300\mu s$ pulse width, 2% duty cycle.
- 3. f = 1 MHz, $V_R = 5VDC$.

