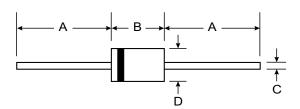


SD830 - SD860

8.0A SCHOTTKY BARRIER RECTIFIERS

Features

- High Current Capability and Low Forward Drop
- High Surge Capacity
- Guard Ring for Transient Protection
- Low Power Loss, High Efficiency
- Plastic Package has UL Flammability Classification 94V-0



Mechanical Data

 Case: DO-201AD, Molded Plastic
Leads: Solderable per MIL-STD-202, Method 208

Polarity: Cathode bandApprox. Weight: 1.1 gramsMounting Position: Any

DO-201AD					
Dim	Min	Max			
Α	25.40	_			
В	7.20	9.50			
С	1.20	1.30			
D	4.80	5.30			
All Dimensions in mm					

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	SD830	SD840	SD845	SD860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	40	45	60	V
RMS Reverse Voltage	V _{R(RMS})	21	28	31.5	42	V
Maximum Average Forward Rectified Current T _L =90°C	Ιo	8.0				Α
Peak Forward Surge current 8.3ms half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	175			А	
Maximum Forward Voltage at 8.0A	V _F		0.55		0.70	V
	I _R	1.0 50				mA
Typical Thermal Resistance (Note 1)	$R_{ heta JL}$		3	0		K/W
Typical Junction Capacitance (Note 2)	Cj		5	50		pF
Operating and Storage Temperature Range	T _{j,} T _{STG}		-65 to	+150		°C

Notes:

- 1. Thermal Resistance from Junction to Lead Vertical PC Board Mounting, 9.5mm Lead Length.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V.

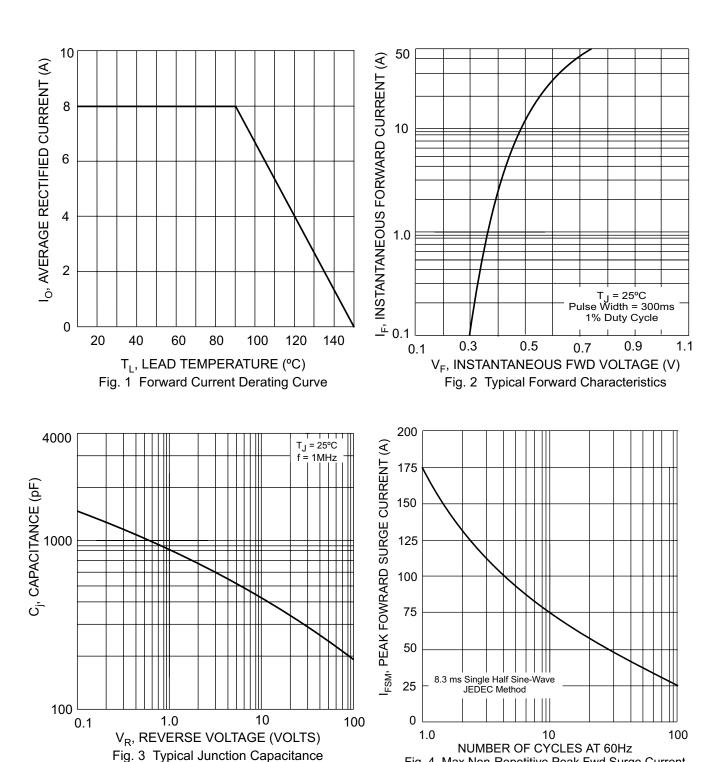


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current