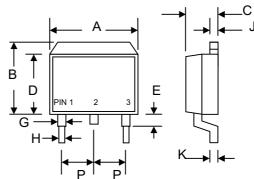
## **SEMICONDUCTOR**

## 8.0A D<sup>2</sup>PAK SURFACE MOUNT SUPER FAST RECTIFIER

# Data Sheet 2619 Rev.—

### **Features**

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Profile Package
- High Surge Current Capability
- Low Power Loss, High Efficiency
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



### **Mechanical Data**

Case: Molded Plastic

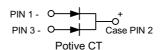
 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

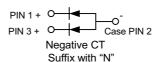
Polarity: Cathode Band

Weight: 1.7 grams (approx.)

Mounting Position: AnyMarking: Type Number

Standard Packaging: 24mm Tape (EIA-481)





D <sup>2</sup> PAK/TO-263						
Dim	Min	Max				
Α	9.8	10.4				
В	9.6	10.6				
С	4.4	4.8				
D	8.5	9.1				
Е	_	0.7				
G	1.0	1.4				
Н	_	0.9				
J	1.2	1.4				
K	0.3	0.7				
Р	2.35	2.75				
All Dimensions in mm						

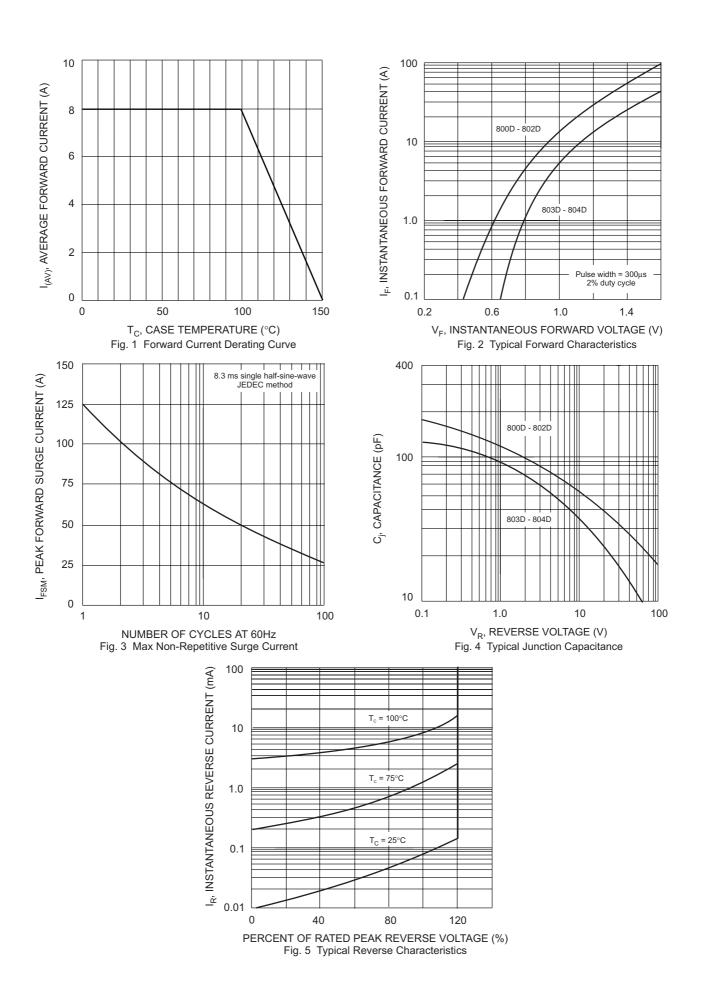
### Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

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

Characteristic	Symbol	ER 800D	ER 801D	ER 801AD	ER 802D	ER 803D	ER 804D	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	50	100	150	200	300	400	<b>&gt;</b>
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	V
Average Rectified Output Current @T <sub>C</sub> = 100	C Io	8.0						Α
Non-Repetitive Peak Forward Surge Current 8.3m Single half sine-wave superimposed on rated load (JEDEC Method)		125						А
Forward Voltage @I <sub>F</sub> = 8.0	A VFM	0.95 1.3						٧
Peak Reverse Current @T <sub>A</sub> = 25 At Rated DC Blocking Voltage @T <sub>A</sub> = 100		10 300						μA
Reverse Recovery Time (Note 1)	trr	35 50					nS	
Typical Junction Capacitance (Note 2)	Cj	70 50					50	pF
Operating and Storage Temperature Range	Тj, Tsтg	-50 to +150						°C

Note: 1. Measured with  $I_F$  = 0.5A,  $I_R$  = 1.0A,  $I_{rr}$  = 0.25A.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





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