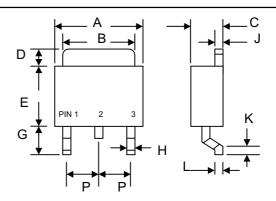
SEMICONDUCTOR

3.0A DPAK SURFACE MOUNT SUPER FAST RECTIFIER

Data Sheet 2603 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-750, Method 2026

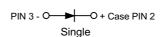
Polarity: Cathode Band

Weight: 0.4 grams (approx.)

Mounting Position: Any

Marking: Type Number

Standard Packaging: 16mm Tape (EIA-481)



D PAK/TO-252AA						
Dim	Min	Max				
Α	0.252(6.40)	0.268(6.80)				
В	0.197(5.00)	0.213(5.40)				
С	0.093(2.35)	0.108(2.75)				
D	_	0.063(1.60)				
Ε	0.209(5.30)	0.224(5.70)				
G	0.091(2.30)	0.106(2.70)				
Н	0.016(0.40)	0.031(0.80)				
J	0.016(0.40)	0.024(0.60)				
K	0.012(0.30)	0.028(0.70)				
L	0.020(0.50) Typical					
Р		0.091(2.30)				
All Dimensions in inch(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	ED302S	ED303S	ED304S	ED306S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	140	210	280	420	V
Average Rectified Output Current @T _L = 75°C	lo	3.0				Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	75				А
Forward Voltage (Note 1) @I _F = 3.0A	VFM	0.95	1.	25	1.7	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 200				μA
Typical Thermal Resistance Junction to Ambient	$R_{ heta}$ JA	80				K/W
Reverse Recovery Time (Note 2)	trr	35				
Operating and Storage Temperature Range	Тj, Tsтg	-50 to +150				°C

Note: 1. Mounted on P.C. Board with 14mm² (0.13mm thick) copper pad.

2. Measured with I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A.

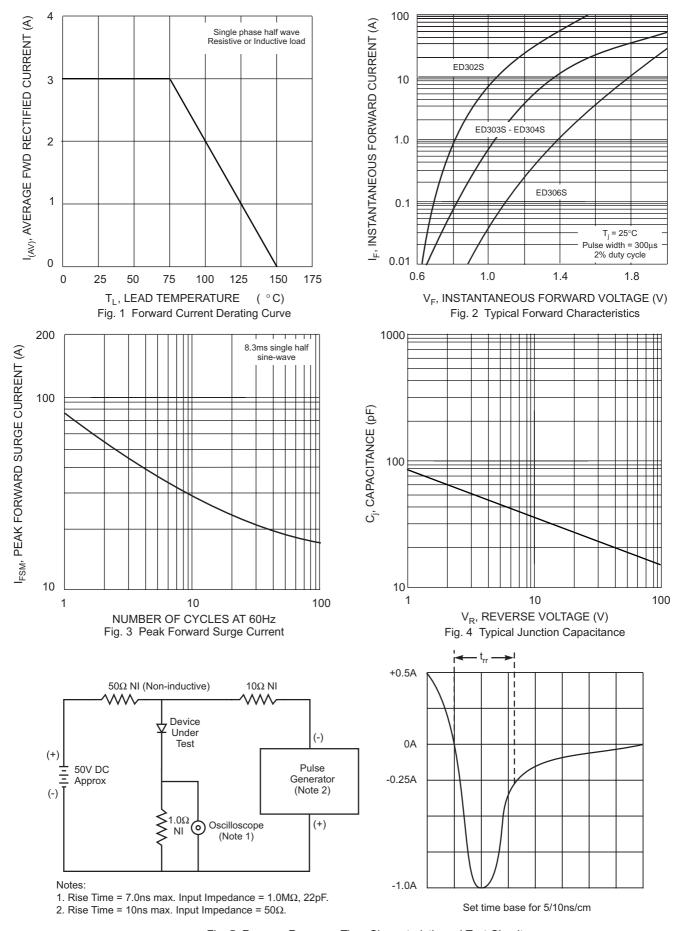


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit



TECHNICAL DATA

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