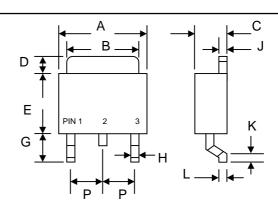


ED502S - ED506S

5.0A DPAK SURFACE MOUNT SUPER FAST RECTIFIER

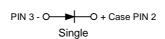
Features

- 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	6.4 6.8				
В	5.0	5.4			
С	2.35	2.75			
D		1.60			
Е	5.3	5.7			
G	2.3	2.7			
Н	0.4	0.8			
J	0.4	0.6			
K	0.3	0.7			
L	0.50 Typical				
Р		2.3			
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	ED502S	ED503S	ED504S	ED506S	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	٧
Average Rectified Output Current @T _L = 75°C	lo		5	.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 = 5.0A	VFM	0.95	1.:	25	1.7	٧
	IRM	5.0 200			μΑ	
Typical Thermal Resistance Junction to Ambient	$R_{ heta}$ JA	71			K/W	
Reverse Recovery Time (Note 2)	trr	35			nS	
Operating and Storage Temperature Range	Тj, Тsтg	-50 to +150			°C	

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

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

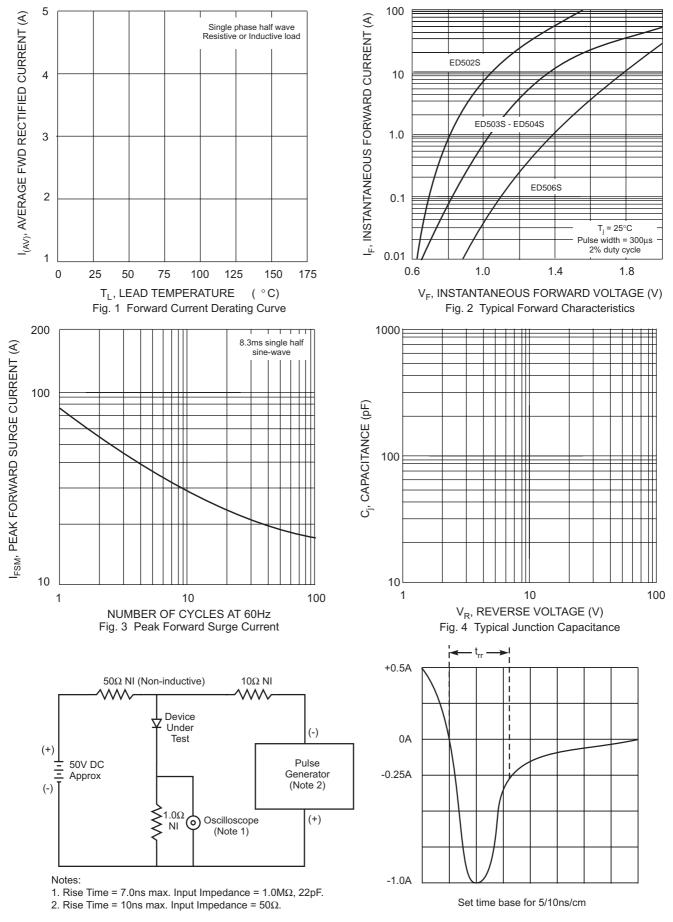


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

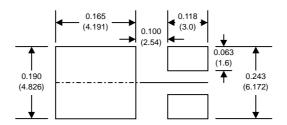
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
ED502S-T3	DPAK	2500/Tape & Reel
ED503S-T3	DPAK	2500/Tape & Reel
ED504S-T3	DPAK	2500/Tape & Reel
ED506S-T3	DPAK	2500/Tape & Reel

T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



inches(mm)

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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