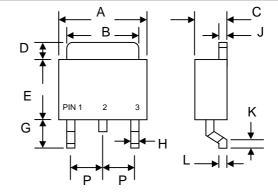


ED502YS – ED506YS

5.0A DPAK SURFACE MOUNT SUPER FAST RECTIFIER

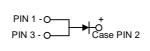
Features

- **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/10-252AA					
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			
К	0.3	0.7			
L	0.50 Typical				
Р		2.3			
All Dimensions in mm					

D BAK/TO 252AA

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

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

Characteristic	Symbol	ED502YS	ED503YS	ED504YS	ED506YS	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 $@T_L = 75^{\circ}C$	lo	5.0				А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	75			A	
Forward Voltage (Note 1) $@I_F = 5.0A$	VFM	0.95	1.:	25	1.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 200			μA	
Typical Thermal Resistance Junction to Ambient	RθJA	71			K/W	
Reverse Recovery Time (Note 2)	trr	35			nS	
Operating and Storage Temperature Range	Тј, Tsтg	-50 to +150			°C	

Note: 1. Mounted on P.C. Board with 14mm² (0.13mm thick) copper pad. 2. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$.

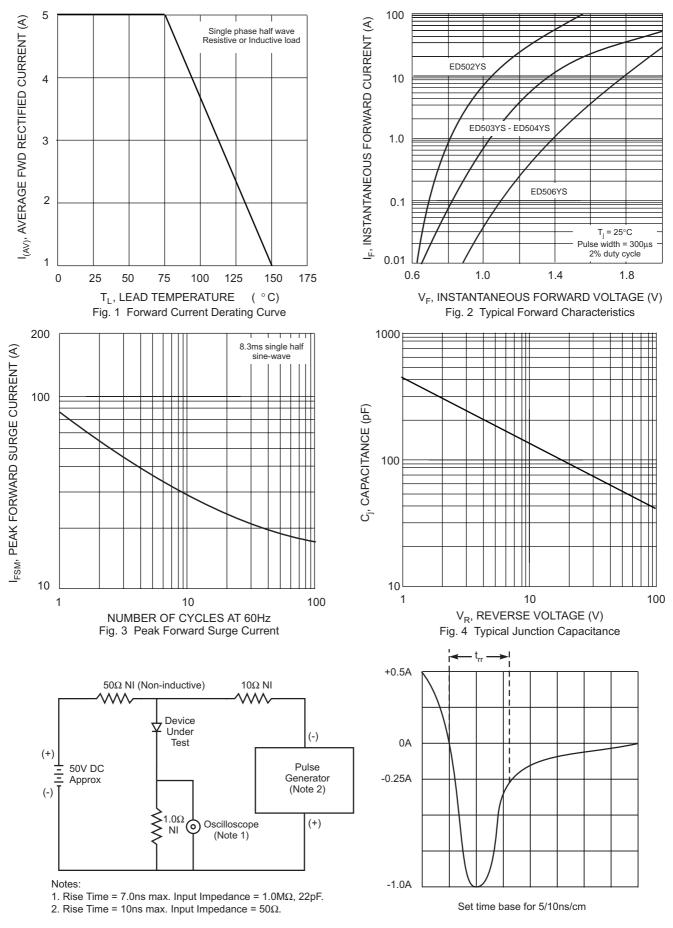


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

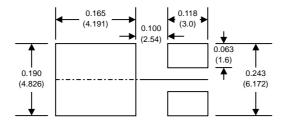
Product No.	Package Type	Shipping Quantity
ED502YS-T3	DPAK	2500/Tape & Reel
ED503YS-T3	DPAK	2500/Tape & Reel
ED504YS-T3	DPAK	2500/Tape & Reel
ED506YS-T3	DPAK	2500/Tape & Reel

ORDERING INFORMATION

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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