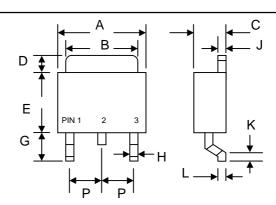


# **ED802CS - ED806CS**

# 8.0A DPAK SURFACE MOUNT SUPER FAST RECTIFIER

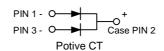
#### **Features**

- 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	ED802CS	ED803CS	ED804CS	ED806CS	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 <sub>L</sub> = 85°C	lo	8.0			Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	85			А	
Forward Voltage (Note 1)	VFM	0.95	1	.3	1.7	V
Peak Reverse Current @T <sub>A</sub> = 25°C At Rated DC Blocking Voltage @T <sub>A</sub> = 100°C	IRM	5.0 250			μΑ	
Typical Thermal Resistance Junction to Ambient	$R_{ heta}JA$	56			K/W	
Reverse Recovery Time (Note 2)	trr	35 50			nS	
Operating and Storage Temperature Range	Тј, Тѕтс	-50 to +150			°C	

Note: 1. Mounted on P.C. Board with 14mm<sup>2</sup> (0.13mm thick) copper pad.

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

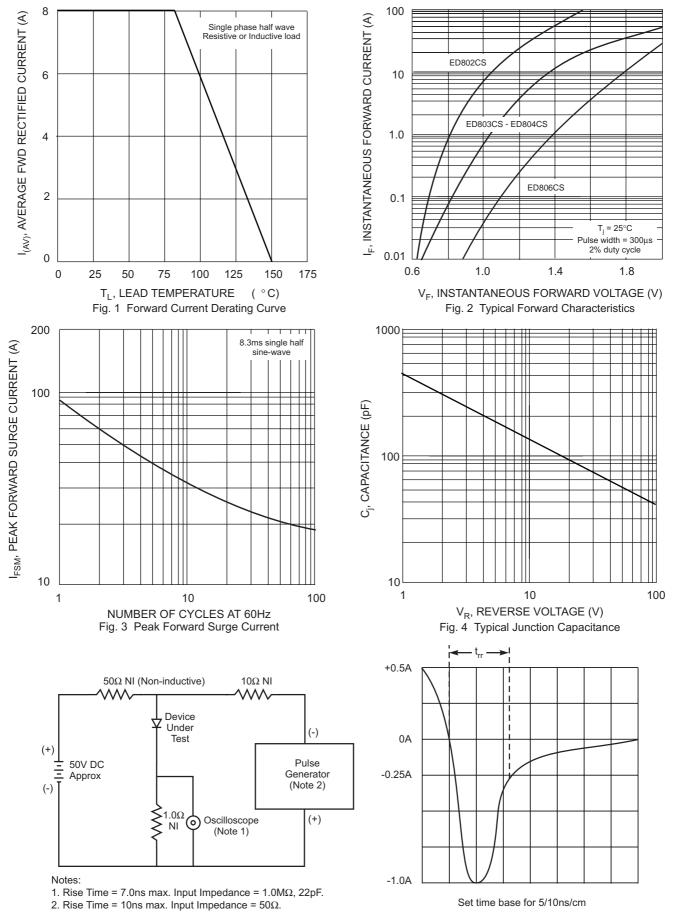


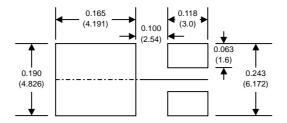
Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity
ED802CS-T3	DPAK	2500/Tape & Reel
ED803CS-T3	DPAK	2500/Tape & Reel
ED804CS-T3	DPAK	2500/Tape & Reel
ED806CS-T3	DPAK	2500/Tape & Reel

T3 suffix refers to a 13" reel.

#### 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.

Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com

Internet: http://www.wontop.com

We power your everyday.

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