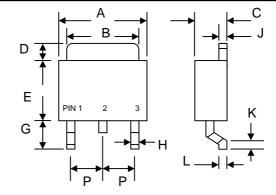


ED802CS – ED806CS

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		
К	0.3	0.7		
L	0.50 Typical			
Р	_	2.3		
All Dimensions in mm				

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	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 $@T_L = 85^{\circ}C$ Io8.0				А		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	85			A	
Forward Voltage (Note 1) $@I_F = 8.0A$	VFM	0.95	1	.3	1.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	5.0 250		μA		
Typical Thermal Resistance Junction to Ambient	RθJA	56			K/W	
Reverse Recovery Time (Note 2)	trr	35 50		nS		
Operating and Storage Temperature Range	Tj, TS⊺G	-50 to +150			°C	

Note: 1. Mounted on P.C. Board with $14mm^2$ (0.13mm thick) copper pad.

2. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A.

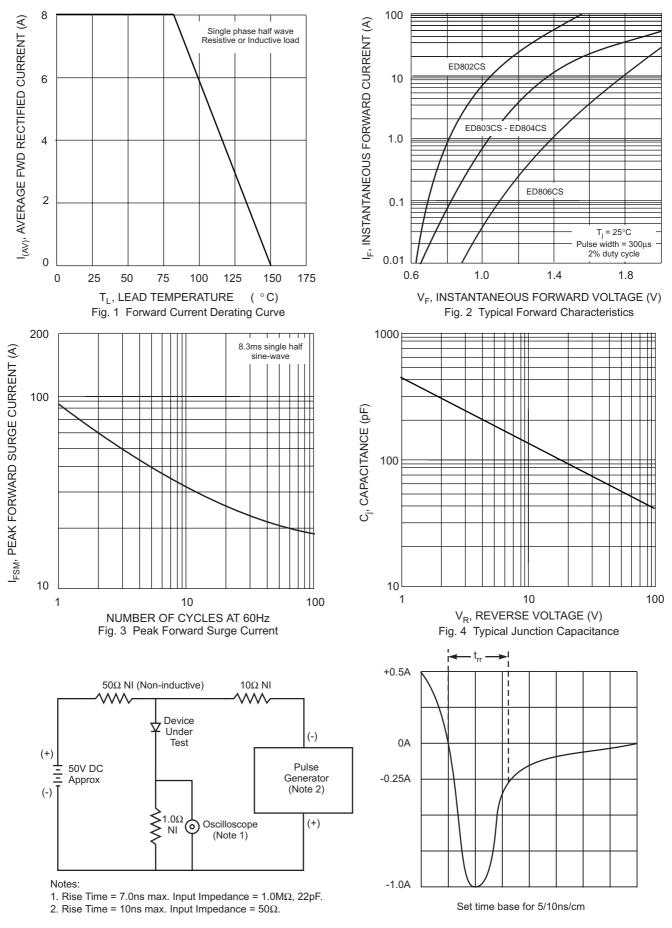


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

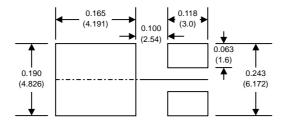
Product No.	Package Type	Shipping Quantity
ED802CS-T3	DPAK	2500/Tape & Reel
ED803CS-T3	DPAK	2500/Tape & Reel
ED804CS-T3	DPAK	2500/Tape & Reel
ED806CS-T3	DPAK	2500/Tape & Reel

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.

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

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