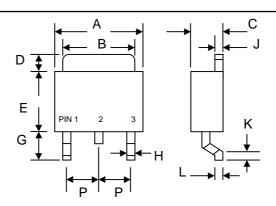


# **ED602CS - ED606CS**

# 6.0A DPAK SURFACE MOUNT SUPER FAST RECTIFIER

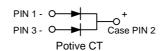
#### **Features**

- 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			
E	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	ED602CS	ED603CS	ED604CS	ED606CS	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 <sub>L</sub> = 75°C	lo	6.0			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 <sub>F</sub> = 6.0A	VFM	0.95	1	.3	1.7	V
	IRM	5.0 250			μA	
Typical Thermal Resistance Junction to Ambient	$R_{ heta}JA$	65			K/W	
Reverse Recovery Time (Note 2)	trr	35			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  $I_F = 0.5A$ ,  $I_R = 1.0A$ ,  $I_{rr} = 0.25A$ .

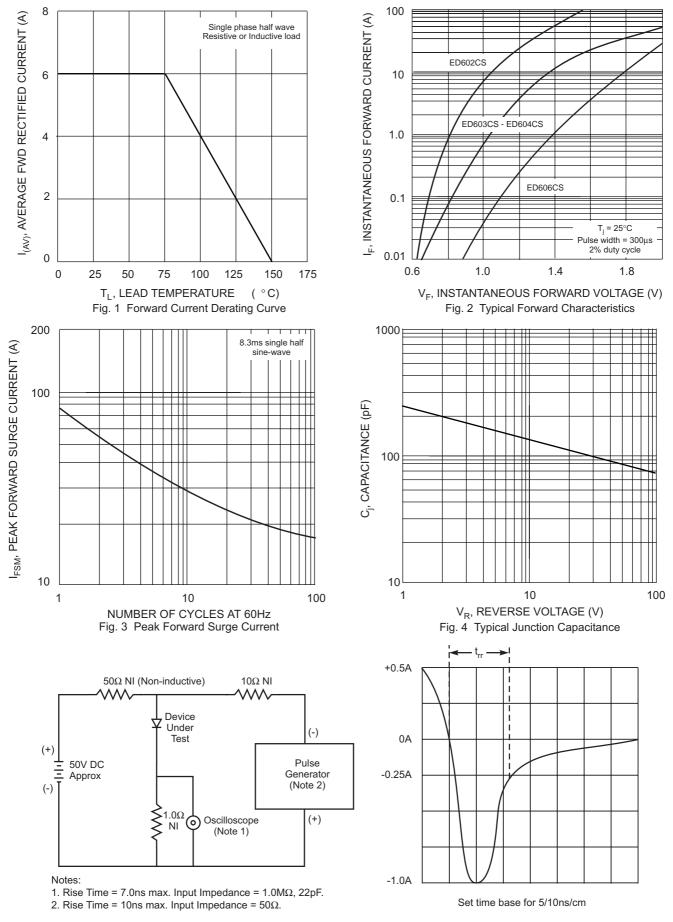


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

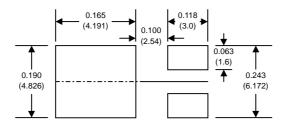
#### **ORDERING INFORMATION**

Product No.◆	Package Type	Shipping Quantity
ED602CS-T3	DPAK	2500/Tape & Reel
ED603CS-T3	DPAK	2500/Tape & Reel
ED604CS-T3	DPAK	2500/Tape & Reel
ED606CS-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)

Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

**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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