

#### SUPERFAST RECOVERY RECTIFIERS 6 A Voltage

200~600 V Current

#### Features

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Superfast recovery times-epitaxial construction ٠
- Low forward voltage, high current capability
- Exceeds environmental standards of MIL-S-19500/228
- Hermetically sealed.
- Low leakage
- High surge capability ٠
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

#### Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 •
- Polarity: As marking •
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number



## Maximum Ratings ( $T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	ED602CS	ED603CS	ED604CS	ED606CS	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	200	300	400	600	V
Maximum rms voltage		V <sub>RMS</sub>	140	210	280	420	V
Maximum dc blocking voltage		V <sub>R</sub>	200	300	400	600	V
Maximum average forward rectified current		I <sub>F(AV)</sub>	6				А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		I <sub>FSM</sub>	75				А
Maximum forward voltage at 3A per diode		V <sub>F</sub>	0.95	0.95 1.3 1.7		1.7	V
Maximum dc reverse current	TJ=25 °C			1		μA	
at rated dc blocking voltage	TJ=100 °C	I <sub>R</sub>	300				
Maximum reverse recovery time (Note 2)		T <sub>RR</sub>	35				nS
Typical thermal resistance (Note 3)		$R_{\Theta JC}$	9				°C/W
Operating junction and storage temperature range		$T_J, T_{STG}$	-55 to +150				°C

NOTES :

1. Pulse Test with PW=300  $\mu sec,$  2% Duty Cycle.

2. Reverse Recovery Tset Conditions:I<sub>F</sub>=0.5A,I<sub>R</sub>=1.0A,I<sub>rr</sub>=0.25A

3. Mounted on P.C. Board with 14mm<sup>2</sup> (0.013mm thick) copper pad areas.





#### RATING AND CHARACTERISTIC CURVES







### MOUNTING PAD LAYOUT



### ORDER INFORMATION

- Packing information
  - T/R 3K per 13" plastic Reel





### Part No\_packing code\_Version

ED602CS\_L2\_00001 ED602CS\_S2\_00001

## For example :

### RB500V-40\_R2\_00001



Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	в	13"	2					
Tube Packing (T/P)	т	26mm	x					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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