



ED602CS~ED606CS

SUPERFAST RECOVERY RECTIFIERS

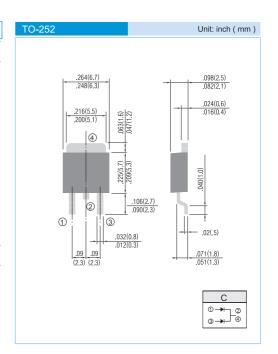
VOLTAGE 200 to 600 Volts CURRENT 6.0 Amperes

FEATURES

- Superfast recovery times-epitaxial construction.
- · Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- · Hermetically sealed.
- Low leakage.
- · High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, TO-252
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0104 ounces, 0.297 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ED602CS	ED603CS	ED604CS	ED606CS	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	V
Maximum Average Forward Current at T _c =75°C	I _{F(AV)}	6.0				А
Peak Forward Surge Current, 8.3ms single half sinewave superimposed on rated load(JEDEC method)	I _{FSM}	75				А
Maximum Forward Voltage at 3.0A (Note 1)	V _F	0.95	1.3		1.7	V
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking Voltage T _J =100 °C	I _R	1.0 300				μА
Maximum Reverse Recovery Time (Note 2)	t _{rr}	35				ns
Typical thermal Resistance (Note 3)	R _{eJC}	9.0				°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150				°C

NOTES:

- 1. Pulse Test with PW=300 usec, 2% Duty Cycle.
- 2. Reverse Recovery Tset Conditions:I_F=0.5A,I_R=1.0A,Irr=0.25A
- 3. Mounted on P.C. Board with 14mm2 (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

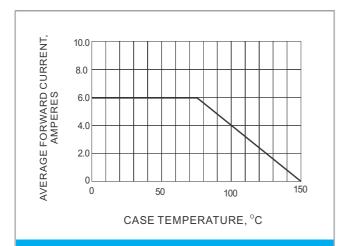


Fig.1- FORWARD CURRENT DERATING CURVE

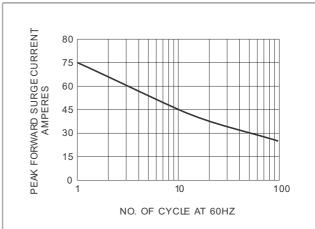


Fig.2 MAXIMUM NON-REPETITEV SURGE CURRENT

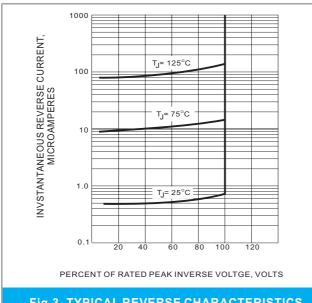


Fig.3-TYPICAL REVERSE CHARACTERISTICS

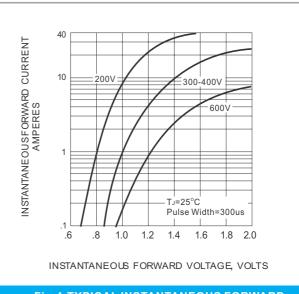


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTREISTICS

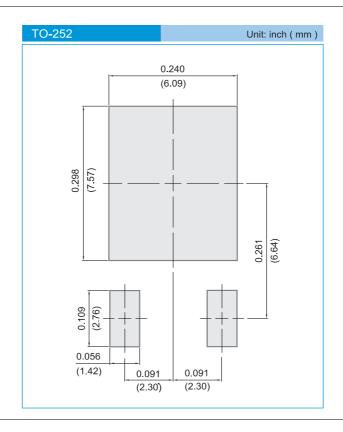
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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

LEGAL STATEMENT

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