

ED802CS~ED806CS

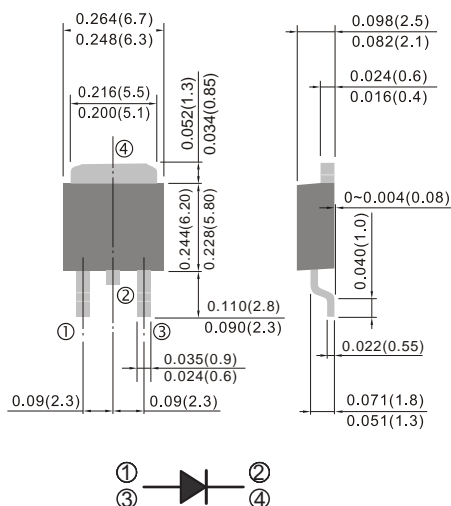
SUPERFAST RECOVERY RECTIFIERS

VOLTAGE 200 to 600 Volt **CURRENT** 8 Ampere



TO-252

Unit : inch(mm)



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.
- Lead free in & { | 3a &^Á aóOWUÍ PÚÁCEFDÍ BOWÁa^&a^Á

MECHANICAL DATA

- 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	ED802CS	ED803CS	ED804CS	ED806CS	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 _A =75°C	I _{F(AV)}	8				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125				A
Maximum Forward Voltage at 5A DC	V _F	0.95	1.25		1.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J =25°C T _J =125°C	I _R	5 300				μA
Maximum Reverse Recovery Time	t _{rr}	35				nS
Typical Junction Capacitance	C _J	45				pF
Typical Thermal Resistance	R _{θJA}	9				°C / W
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +150				°C

NOTES:

1. Thermal Resistance Junction to Ambient .

ED802CS~ED806CS

RATING AND CHARACTERISTIC CURVES

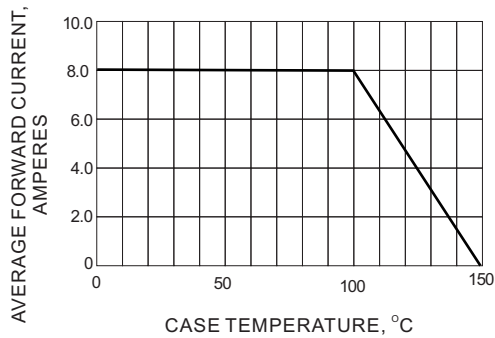


Fig.1-FORWARD CURRENT DERATING CURVE

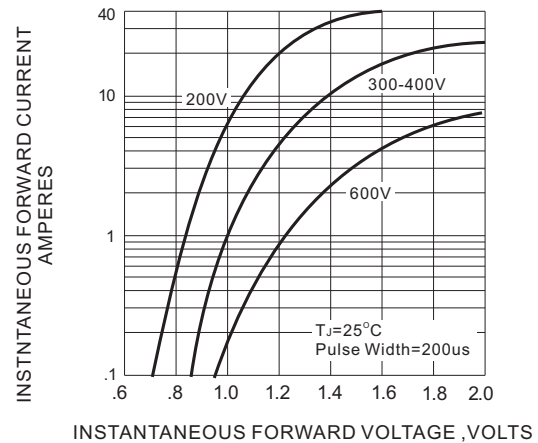


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

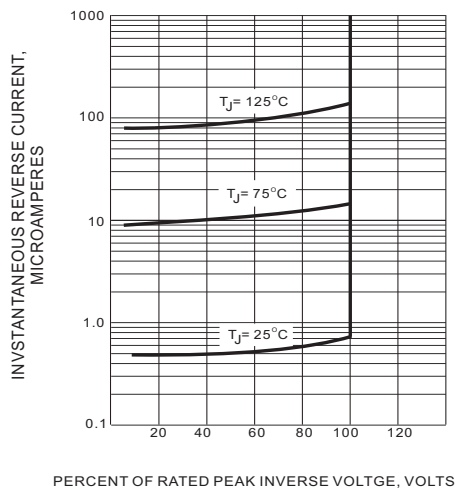


Fig.3-TYPICAL REVERSE CHARACTERISTICS

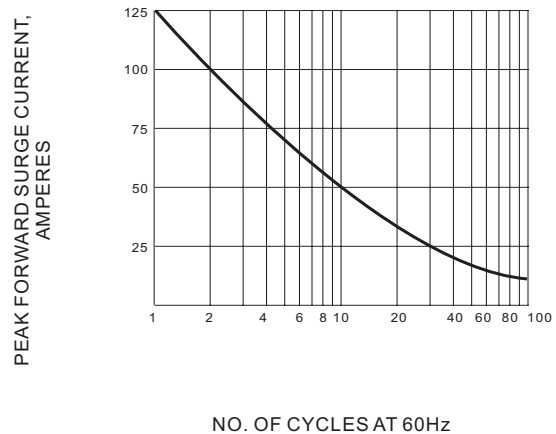


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

The cruve graph is for reference only, can't be the basis for judgment

ED802CS~ED806CS**Disclaimer**

- Reproducing and modifying information of the document is prohibited without permission from EDA International Inc..
- EDA International Inc. reserves the rights to make changes of the content herein the document anytime without notification.
- EDA International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- EDA International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. EDA International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify EDA International Inc. for any damages resulting from such improper use or sale.
- The customer is responsible for verifying whether a specific product with the characteristics described in the product specification is suitable for a specific application. The parameters or specifications provided in the data sheet may vary in different applications, and performance may change over time. All operating parameters, including typical parameters, must be verified by the customer's technical experts for each customer application.
- Since EDA uses lot number as the tracking base, please provide the lot number for tracking when complaining.