



Unit : inch(mm)

0.098(2.5)

0.024(0.6)

0~0.004(0.08)

0.040(1.0)

0.02(0.5)

0.071(1.8)

blank

3→⊢@

ED502S~ED506S

SUPERFAST RECOVERY RECTIFIERS

200 to 600 Volt CURRENT

FEATURES

VOLTAGE

- 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 &[{] |ãe) &^ Á ã@ÓWÁÜ[PÙÁΘ€FFÐÍ ÉÓWÁ&ã^&ãç^ÁÁ
- Green molding compound as per IEC61249 Std. . (Halogen Free)

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	ED502S	ED503S	ED504S	ED506S	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)}	5				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	75				A
Maximum Forward Voltage at 5A DC	V _F	0.95	1.25 1.7		1.7	v
Maximum DC Reverse Current at Rated T _j =25°C DC Blocking Voltage T _j =125°C	I _R	1 300				μA
Maximum Reverse Recovery Time	t _{rr}	35				nS
Typical Junction Capacitance	C	45				pF
Typical Thermal Resistance	$R_{_{\theta JA}}$	9				°C / W
Operating Junction and Storage Temperature Range	T_,,T _{stg}	-55 to +150				°C

TO-252

0.264(6.7)

0.216(5.5)

4

2

3

1

0.09(2.3)

0.063(1.6) 1.2)

0.225(5.7)

0.032(0.8) 0.012(0.3)

0.09(2.3)

047(

0.106(2.7)

5 Ampere

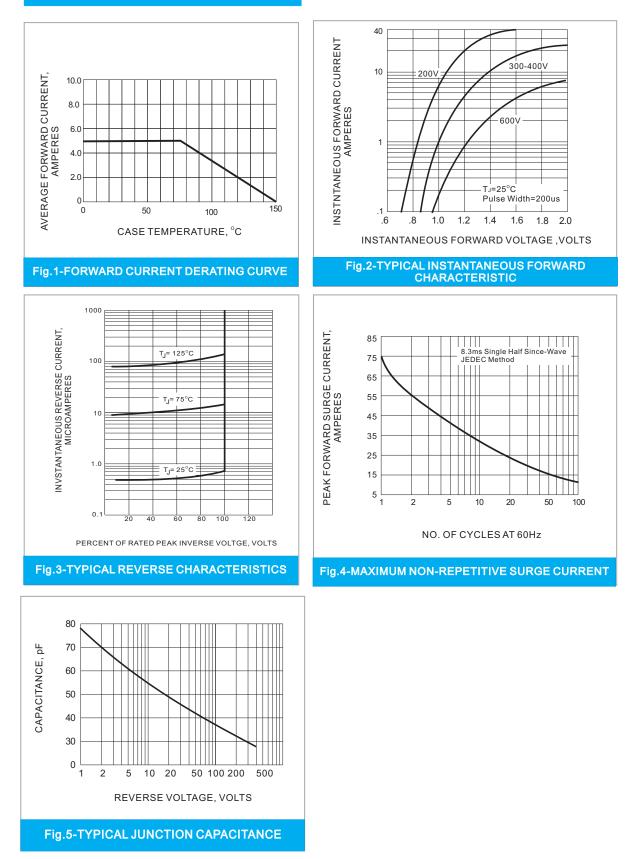
NOTES:

^{1.} Thermal Resistance Junction to Ambient .



ED502S~ED506S

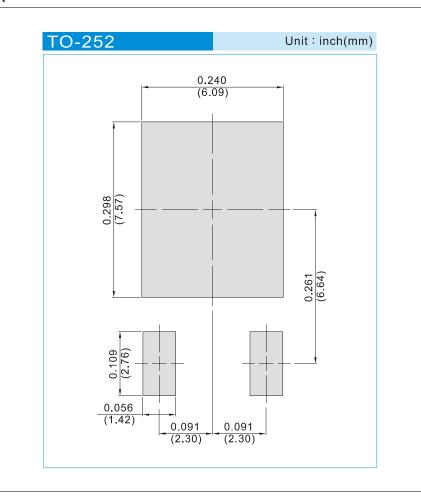
RATING AND CHARACTERISTIC CURVES





ED502S~ED506S

MOUNTING PAD LAYOUT



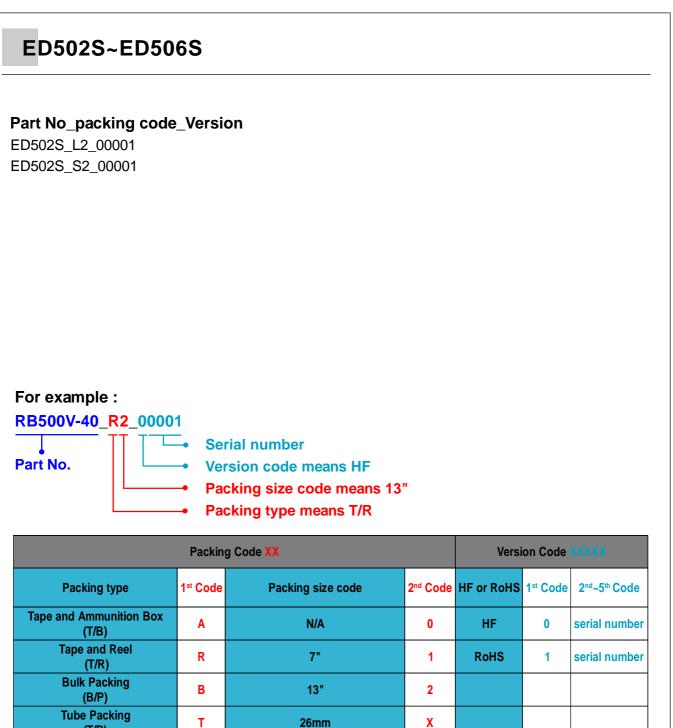
ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel

10 M





52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

Y

U

D

(T/P) Tape and Reel (Right Oriented)

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

S

L

F





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit 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. Panjit 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 Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.