



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 <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>DC</sub>	200	300	400	600	v
Maximum Average Forward Current at T <sub>A</sub> =75°C	I <sub>F(AV)</sub>	5				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	75				A
Maximum Forward Voltage at 5A DC	V <sub>F</sub>	0.95	1.25 1.7		1.7	v
Maximum DC Reverse Current at Rated T <sub>j</sub> =25°C DC Blocking Voltage T <sub>j</sub> =125°C	I <sub>R</sub>	1 300				μA
Maximum Reverse Recovery Time	t <sub>rr</sub>	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 <sub>stg</sub>	-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

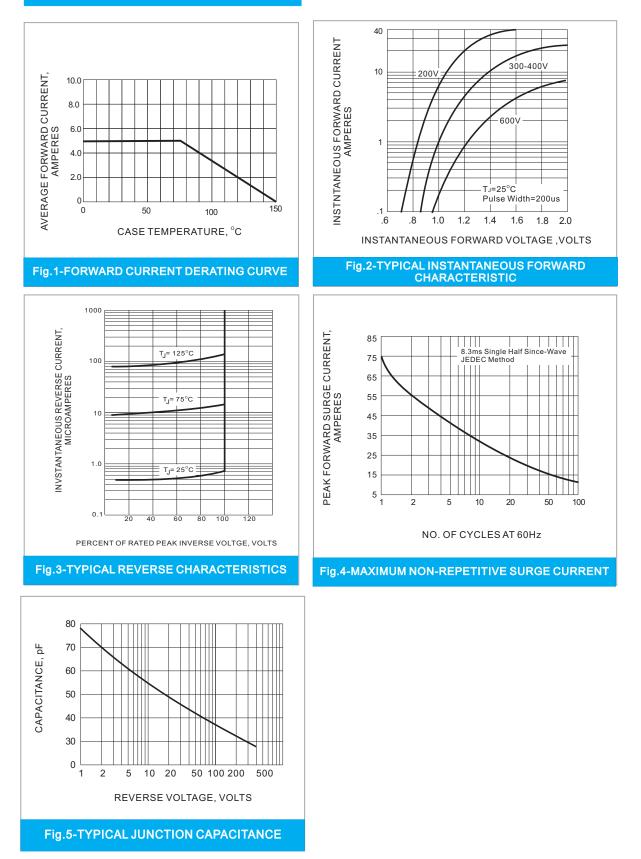
#### NOTES:

<sup>1.</sup> Thermal Resistance Junction to Ambient .



## ED502S~ED506S

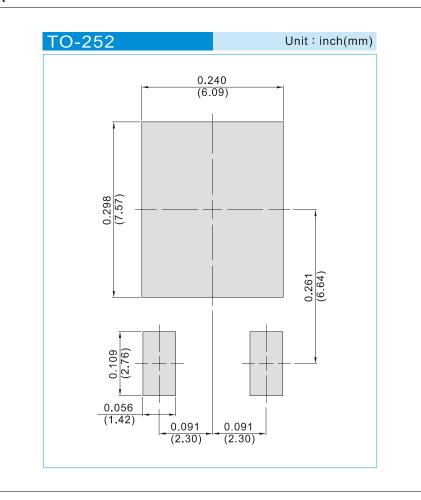
RATING AND CHARACTERISTIC CURVES





## ED502S~ED506S

### MOUNTING PAD LAYOUT



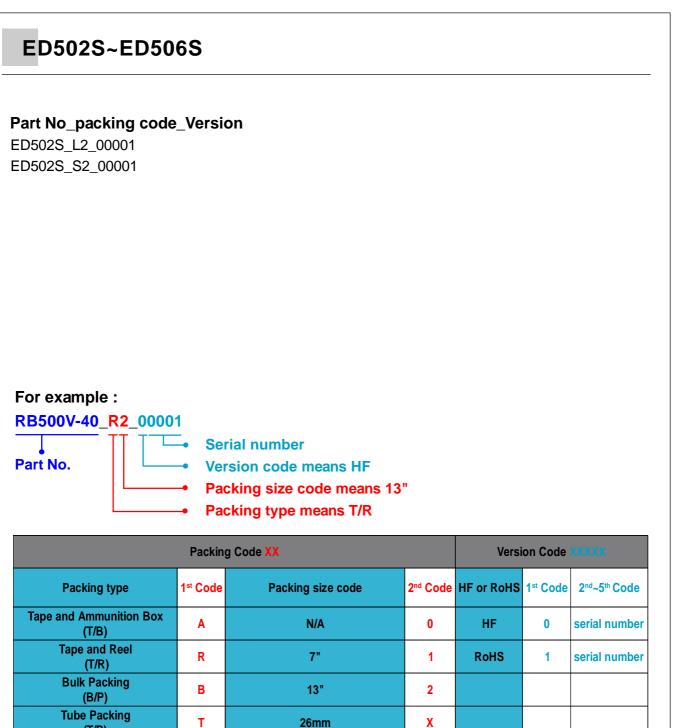
### ORDER INFORMATION

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





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