

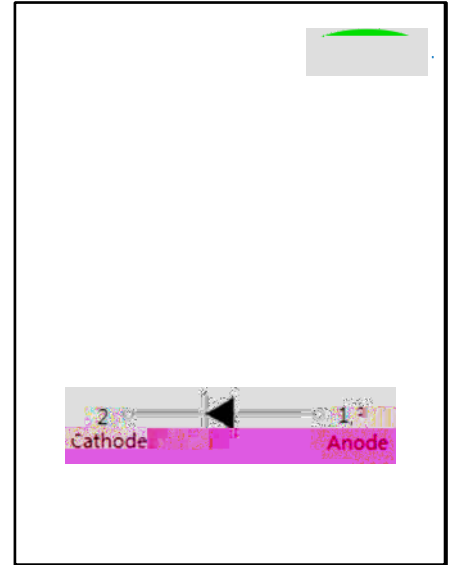


JEUR6006SW EPI ULTRAFast RECOVERY RECTIFIER

Rev.1.6

DESCRIPTION

- ✧ Plastic package has underwriters laboratory flammability classification 94V-0
- ✧ Lead free in comply with EU RoHS 2011/65/EU directives
- ✧ Low reverse leakage current
- ✧ Ultrafast recovery time and soft recovery characteristics
- ✧ Low recovery loss
- ✧ Applications for continuous current mode (CCM) power factor correction (PFC), active PFC in air conditioner, and half bridge full bridge switched-mode power supplies



MECHANICAL DATA

- ✧ Case: TO-247J molded plastic over passivated junction
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Weight:6 gram

ABSOLUTE MAXIMUM RATING (Rating at 25 °C ambient temperature unless otherwise specified.)

| Parameter | Symbol | JEUR6006SW | Unit |
|--|--------------|-------------|------|
| Maximum repetitive peak reverse voltage | V_{RM} | 650 | V |
| Maximum DC blocking voltage | V_C | 650 | V |
| Average forward current at $T_{mb}=132$ | $I_{F(AV)}$ | 60 | A |
| Peak forward surge current: 10ms single half sine-wave superimposed on rated load | I_{FSM} | 600 | A |
| Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 660 | A |
| Junction temperature and storage temperature range | $T_{j, stg}$ | -55 to +150 | |



ELECTRICAL CHARACTERISTICS(Rating at 25 ambient temperature unless otherwise specified.)

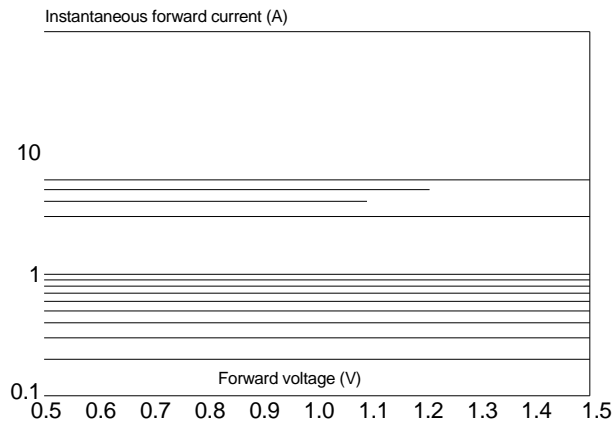
| Parameter | | Symbol | Min. | Typ. | Max. | Unit |
|-----------------|-------------------|--------|------|------|------|------|
| Forward voltage | $I_F=60A, T_j=25$ | V_F | - | 1.35 | 1.65 | V |
| | $I_F=60A, T$ | | | | | |

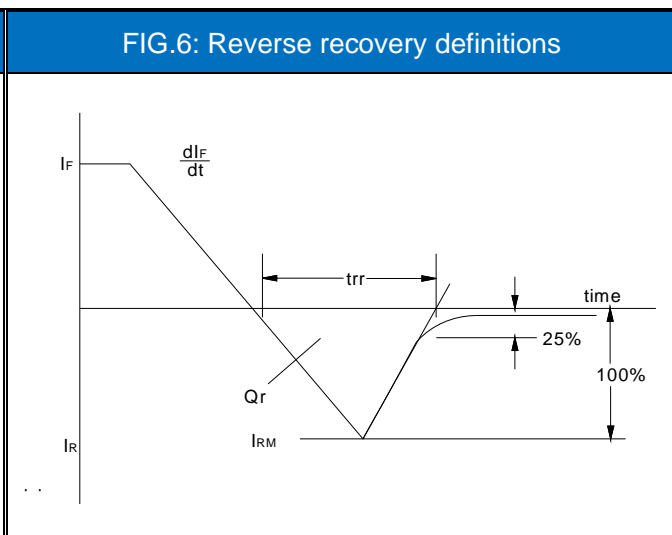
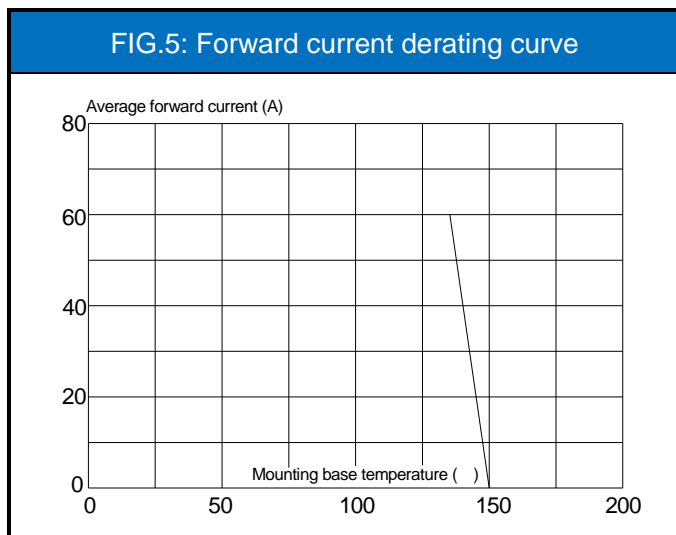


CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

FIG.2: Typical reverse characteristics





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