

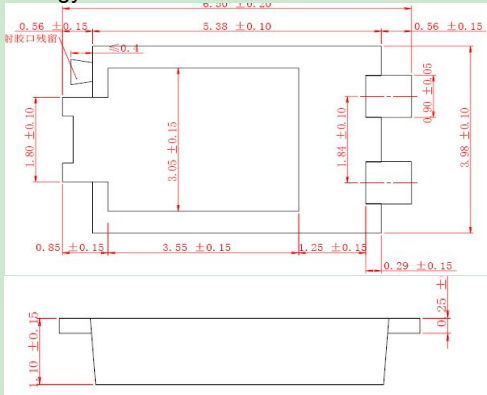
SUPER FAST RECOVERY RECTIFIERS

FEATURES

- Ultrafast Reverse Recovery time
- Very low profile (typical thickness of 1.1mm)
- High speed switching
- Low thermal resistance
- Tjmax. 200.(in DC forward mode
- High efficiency operation
- Patented Flat Package Diode Technology

MECHANICAL DATA

- Case : TO-277
- Plastic material has UL94V-0 classification
- Terminals : Matte tin plated leads



| Maxinmum Ratings (TA=25℃ unless otherwise specified) | | | |
|------------------------------------------------------|--------|-------------|------|
| Characteristic | Symbol | Value | Unit |
| Peak Repetitive Reverse Voltage | VRRM | 600 | V |
| Working Peak Reverse Voltage | VRWM | | |
| DC blocking Voltage | VRM | | |
| Maxi imum DC forward current | IF | 10 | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms | IFSM | 120 | A |
| Single Half Sine-Wave Superimposed on Rated Load | | | |
| Operating Temperature Range (DC Forward Mode) | TJ | ≤ 200 | ℃ |
| Storage Temperature Range | TSTG | -65 to +175 | ℃ |

Notes

(1) Mounted on 30mm X 30mm aluminum PC8; thermal resistance RSJM – junction to mount

| Electrical Characteristics (TA=25℃ unless otherwise soecified) | | | | | | |
|----------------------------------------------------------------|-----------------------|----------|--------|------|-------|------|
| PAAAMETER | TEST CONDITIONS | | SYM80L | TYP. | MAX. | UNIT |
| Forward Voltage Drop | IF=10A | TA=25'C | VF(I) | | 1. 75 | V |
| | IF=10A | TA=125'C | | | 1. 35 | |
| Leakage Current | VR=VRRM | TA=25'C | IR | | 20 | uA |
| | | TA=125'C | | | 200 | uA |
| Reverse recovery time | IF=IA. di/dt=-100A/us | | trr | | 35 | ns |

Notes(1) Pulse test: tp≤380us. Duty cycles≤2%

Electrical Characteristic Curves

