

Super Fast Rectifiers MURF1605C-1660C

ITO-220AB

FEATURES

- Low forward voltage drop.
- High current capability.
- Lead free product, compliance to RoHS
- Low leakage current

MECHANICAL DATA

Case: ITO-220AB

Molding compound meets UL 94 V-0 flammability

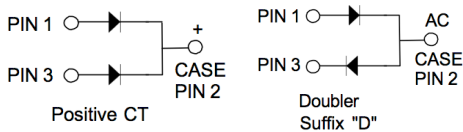
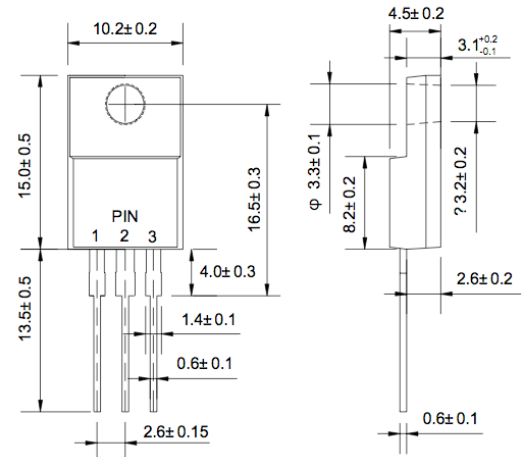
RoHS compliant, and commercial grade

Terminals: Matte tin plated leads, solderable per J-STD-002 and JESD 22-B102

Polarity: As marked

Suffix: CT and CD mean polarity

Weight: 0.08ounce, 1.7 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| | | MUR 1605C | MUR 1610C | MUR 1615C | MUR 1620C | MUR 1640C | MUR 1660C | UNITS |
|--|-----------------|-----------------|--------------|--------------|--------------|--------------|--------------|---------------------------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 50 | 100 | 150 | 200 | 400 | 600 | V |
| Maximum RMS voltage | V_{RMS} | 35 | 70 | 105 | 140 | 280 | 420 | V |
| Maximum DC blocking voltage | V_{DC} | 50 | 100 | 150 | 200 | 400 | 600 | V |
| Maximum average forward rectified current @ $T_C=150^\circ\text{C}$ | $I_{(AV)}$ | 8.0 16 | | | | | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 100 | | | | | | A |
| Maximum instantaneous forward voltage @8.0A, $T_J=25^\circ\text{C}$ @8.0A, $T_J=150^\circ\text{C}$ | V_F | 0.975 0.895 | | | | 1.30 1.00 | 1.50 1.20 | V |
| Maximum reverse current at rated DC blocking voltage @ $T_C=25^\circ\text{C}$ @ $T_C=150^\circ\text{C}$ | I_R | 5.0 250 | | | | 10 500 | | μA |
| Maximum reverse recovery time (Note2) | t_{rr} | 25 | | | | 50 | | ns |
| Typical thermal resistance junction to case | $R_{\theta JC}$ | 3.0 | | | | 2.0 | | $^\circ\text{C}/\text{W}$ |
| Operating junction temperature range | T_J | - 55 ---- + 175 | | | | | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | - 55 ---- + 175 | | | | | | $^\circ\text{C}$ |

TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified
(same as MUR1605-60C)

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

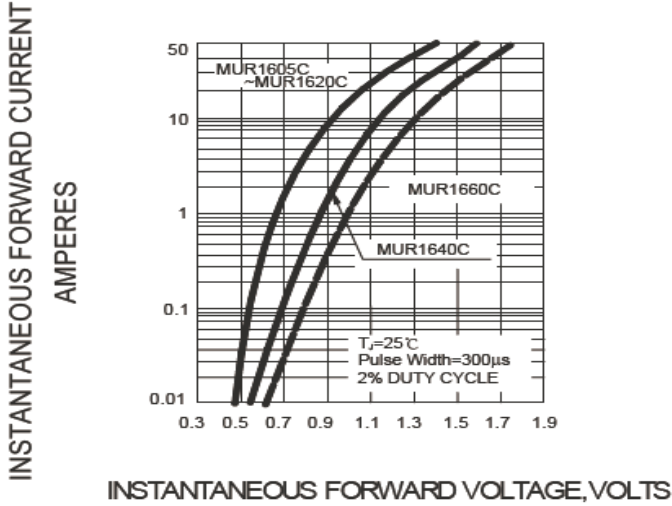


FIG.2 – TYPICAL REVERSE CHARACTERISTICS

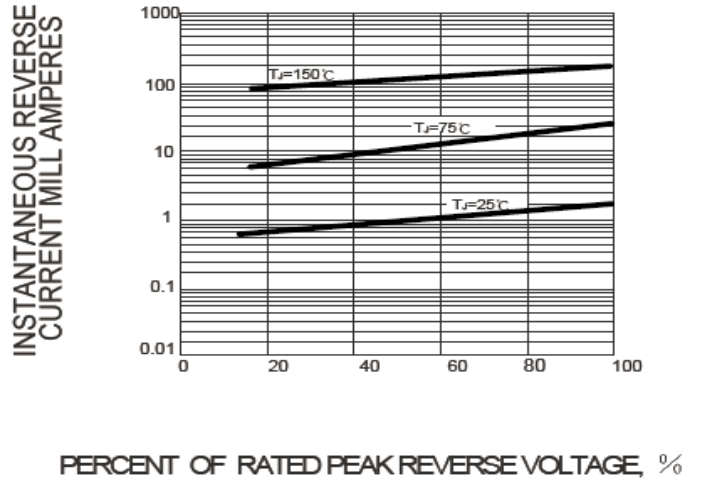


FIG.3 -- PEAK FORWARD SURGE CURRENT

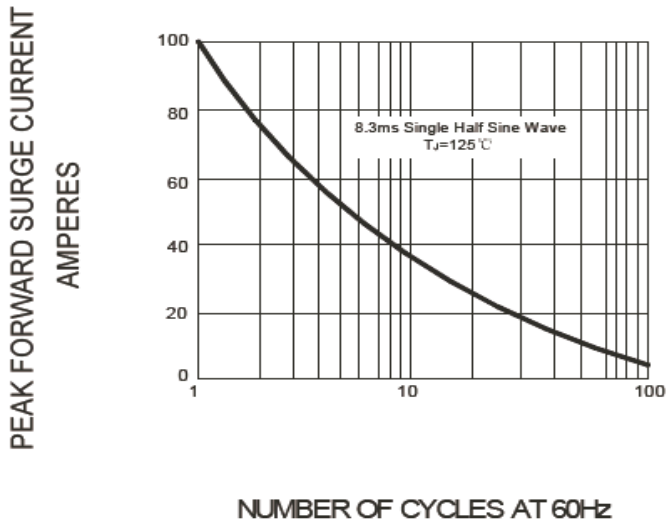


FIG.4 – FORWARD DERATING CURVE

