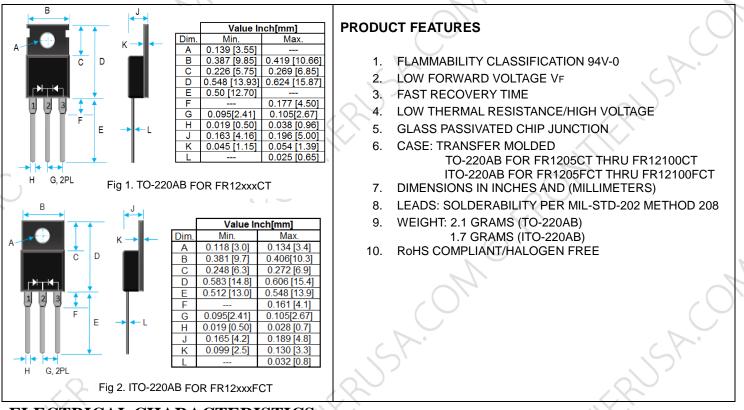


FR1205(F)CT THRU FR12100(F)CT SPECIFICATION Rev. A

12A FAST RECOVERY RECTIFIERS



ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS (TA =25°C UNLESS OTHERWISE NOTED) AND ELECTRICAL CHARACTERISTICS

| RATING | SYMBOL | | UNITS |
|---|------------------|-----------------|-------|
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, SEE FIG.1 | lo | 12 (PER DEVICE) | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | IFSM | 100 | А |
| TYPICAL JUNCTION CAPACITANCE @1MHz & REVERSE VOLTAGE 4V | Сл | 55 | pF |
| TYPICAL THERMAL RESISTANCE, JUNCTION TO CASE ON HEAT SINK | R0jc 📐 | 2.2 (PER LEG) | °C/W |
| STORAGE TEMPERATURE RANGE | T _{STG} | - 55 TO +175 | °C |
| OPERATING TEMPERATURE RANGE | TOP | - 55 TO +150 | 0° |
| MAXIMUM FORWARD VOLTAGE AT 6A PER LEG | VF | 1.3 | V |
| MAXIMUM REVERSE CURRENT AT 25°C | IR | 10 | μA |
| MAXIMUM REVERSE CURRENT AT 125°C | I _R | 500 | μA |

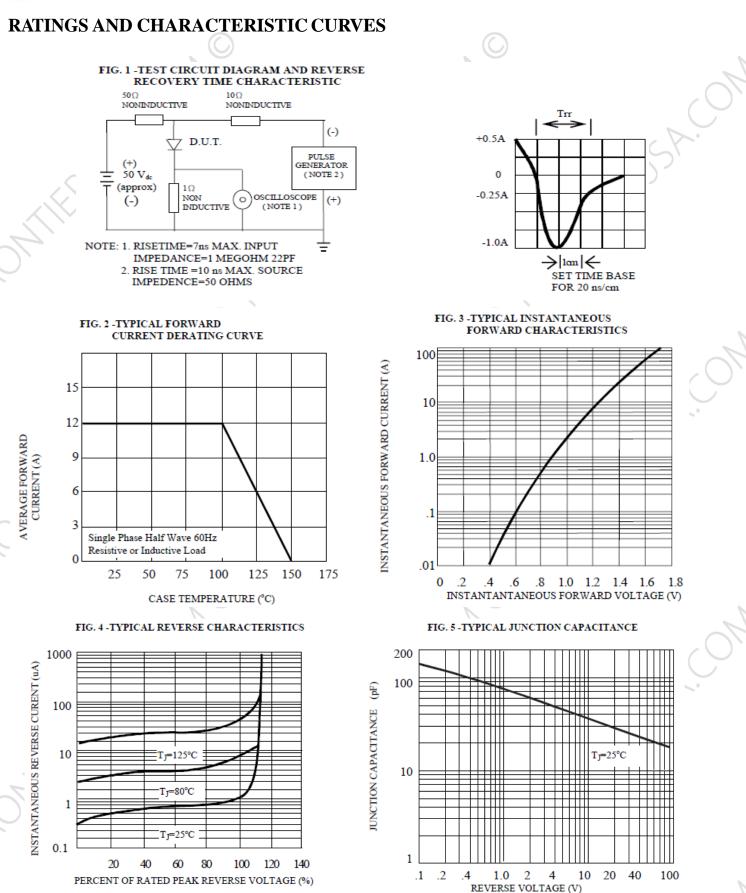
| PART NUMBER | MAX RECURRENT PK REVERSE VOLTAGE/DC BLOCKING V _{RRM} /V _R (V) | MAX V _{RMS} (V) | MAX REVERSE RECOVERY TIME TRR (nS) | MARKING | | |
|----------------------|--|-----------------------------|---------------------------------------|-------------|--|--|
| FR1205CT/FR1205FCT | 50 | 35 | 150 | SAME AS P/N | | |
| FR1210CT/FR1210FCT | 100 | 70 | 150 | SAME AS P/N | | |
| FR1220CT/FR1220FCT | 200 | 140 | 150 | SAME AS P/N | | |
| FR1240CT/FR1240FCT | 400 | 280 | 150 | SAME AS P/N | | |
| FR1260CT/FR1260FCT | 600 | 420 | 250 | SAME AS P/N | | |
| FR1280CT/FR1280FCT | 800 | 560 | 500 | SAME AS P/N | | |
| FR12100CT/FR12100FCT | 1000 | 700 | 500 | SAME AS P/N | | |
| | | | | | | |

NOTE: 1. REVERSE RECOVERY TEST CONDITIONS: IF=0.5A, IR=1.0A, IRR=0.25A.

2. CURRENT RATING IS BASED ON SINGLE PHASE, 1/2 WAVE, 60HZ, RESISTIVE, OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%



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