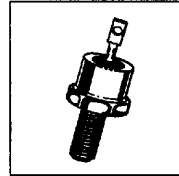


MOTOROLA SC (XSTRS/R F)

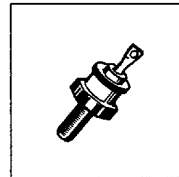
**MIL-Qualified Products (continued)
Rectifiers**

Fast recovery power rectifiers providing high efficiency at frequencies up to 250 kHz. R-suffix indicates reverse polarity. All are available with JAN and JTX classification.

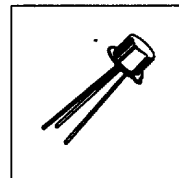
| Device Number | VRRM V Max | IO A Max | IFSM A Max | VF V Max | IR μA Max | t _{rr} ns Max | Package |
|---------------|------------|----------|------------|----------|-----------|------------------------|----------|
| 1N3890, R | 100 | 12 | 200 | 1.4 | 25 | 200 | DO-203AA |
| 1N3891, R | 200 | | | | | | |
| 1N3893, R | 400 | | | | | | |
| 1N3910 | 100 | 30 | 300 | 1.4 | 25 | 200 | DO-203AB |
| 1N3911 | 200 | | | | | | |
| 1N3913 | 400 | | | | | | |



DO-203AA (DO-4)



DO-203AB (DO-5)



TO-206AA (TO-18)

2

**Thyristor Triggers
Unijunction Transistors — UJT**

Highly stable devices for general-purpose trigger applications and as pulse generators (oscillators) and timing circuits. Useful at frequencies ranging (generally) from 1 Hz to 1 MHz. Available with JAN and JTX classification.

| Device Number | η | | I _p μA Max | I _{EB20} μA Max | I _v mA Min | Package |
|---------------|------|------|-----------------------|--------------------------|-----------------------|----------|
| | Min | Max | | | | |
| 2N4948 | 0.55 | 0.82 | 2 | 0.05 | 2 | TO-206AA |

η = Intrinsic Standoff Ratio

**Programmable
Unijunction Transistors — PUT**

Similar to UJTs, except that I_v, I_p and intrinsic standoff voltage are programmable (adjustable) by means of external voltage divider. This stabilizes circuit performance for variations in device parameters. General operating frequency range is from 0.01 Hz to 10 kHz, making them suitable for long-duration timer circuits. Available with JAN, JTX and JTXV classifications.

| Device Number | I _p | | I _{GAO} @ 40 V nA Max | I _v | | Package |
|---------------|------------------------|-----------------------|--------------------------------|------------------------|-----------------------|----------|
| | R _G = 10 kΩ | R _G = 1 MΩ | | R _G = 10 kΩ | R _G = 1 MΩ | |
| | μA Max | | | μA Max | μA Max | |
| 2N6116 | 5 | 2 | 5 | 70 | 50 | TO-206AA |
| 2N6118 | 1 | 0.15 | 5 | 50 | 25 | |

DISCRETE MILITARY OPERATION DATA