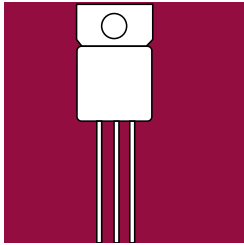


1N6766, 1N6766R, JAN1X1N6766, JAN1X1N6766R, JAN1XV1N6766, JAN1XV1N6766R
 1N6767, 1N6767R, JAN1X1N6767, JAN1X1N6767R, JAN1XV1N6767, JAN1XV1N6767R

JANTX, JANTXV POWER DUAL RECTIFIERS IN A TO-254AA PACKAGE QUALIFIED TO MIL-PRF-19500/643



400V Thru 600V, 12A, Center-Tap Ultra-Fast Power Rectifier in TO-254 Hermetic Package

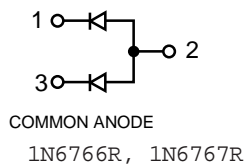
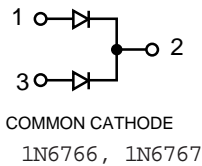
FEATURES

- Ultra-Fast
- Isolated and Hermetically Sealed
- Low Forward Voltage
- Common Cathode & Common Anode
- Center-Tap Configuration
- Qualified to MIL-PRF-19500/643

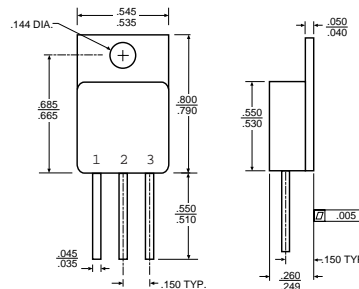
DESCRIPTION

This hermetically packaged QPL product features the latest advanced silicon and packaging technology. It is ideally suited for Military requirements where small size, high performance and high reliability are required, and in applications such as switching power supplies, motor controls, inverters, choppers, audio amplifiers and high energy pulse circuits.

SCHEMATIC



MECHANICAL OUTLINE



TO-254AA

Note: "R" at end of Part Number Designates Common Anode

1N6766, 1N6766R, JANTX1N6766, JANTX1N6766R, JANTXV1N6766, JANTXV1N6766R
 1N6767, 1N6767R, JANTX1N6767, JANTX1N6767R, JANTXV1N6767, JANTXV1N6767R

PRIMARY ELECTRICAL CHARACTERISTICS

MAXIMUM RATINGS @ 25°C Per Diode

MIL-PRF 19500	PART NUMBER	V_{RWM} Volts	I_F Amps $T_C = 100\text{ C}$	I_F Surge 8.3 mSec	$R_{\theta JC}$	Operating Temp Range
643	1N6766, 1N6766R	400	12 A	125 A (Pk)	1.8 C/W	-65 C to +150 C
643	1N6767, 1N6767R	600	12 A	125 A (Pk)	1.8 C/W	-65 C to +150 C

ELECTRICAL CHARACTERISTICS @ 25°C Per Diode

MIL-PRF 19500	PART NUMBER	V_F @ 6 A	V_F @ 12 A	I_R @ 25 C	I_R @ 100 C	t_{RR} $I_F = 1.0A,$ $di/dt = 50A/\mu s$	C_J $f = 1.0\text{ MHz}$
643	1N6766, 1N6766R	1.35 V	1.55 V	10 μA	1 ma	60 nsec	300 pF
643	1N6767, 1N6767R	1.35 V	1.55 V	10 μA	1 ma	60 nsec	300 pF

PRIMARY ELECTRICAL CHARACTERISTICS @ $T_C = 25\text{ C}$

MIL-PRF 19500	PART NUMBER	V_{RWM} , Volts	V_F @ 15A	I_F Amps @ $T_C = 100\text{ C}$
643	1N6766, 1N6766R	400	12	60
643	1N6766, 1N6766R	600	12	60