PS600R THRU PS608R

FAST SWITCHING RECOVERY RECTIFIER VOLTAGE - 50 to 800 Volts CURRENT - 6.0 Amperes

FEATURES

- Low cost
- Diffused junction
- Low forward voltage drop
- High current capability

Fast switching for high efficiency

- The plastic meterial carries U/L recognition 94V-O
- Exceeds environmental standards of MIL-S-19500/228

MECHANICAL DATA

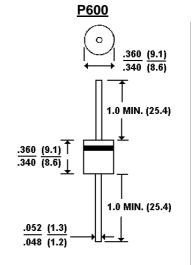
Case: Molded plastic, P600

Terminals: Axial leads, solderable per MIL-STD-202,

Method 208

Polarity: Color Band denotes cathode

Mounting Position: Any Weight: 0.07 ounce, 2.1 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	PS600R	PS601R	PS602R	PS604R	PS606R	PS608R	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	V
Maximum RMS Voltage	35	70	140	280	420	560	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	V
Maximum Average Forward Rectified Current @T _A =55 ¢J	6.0						А
Peak Forward Surge Current 8.3ms single half sine-wave I _{FSM} superimposed on rated load (JEDEC method)	300						А
Maximum Forward Voltage at 6.0A DC	1.3						V
Maximum DC Reverse Current at Rated	10.0						£g A
T _J =25 ¢J DC Blocking Voltage T _J =100 ¢J	1000						£g A
Maximum Reverse Recovery Time(Note 1)		150		250	50	00	ns
Typical Junction capacitance (Note 2)	140 300					₽F	
Typical Thermal Resistance at 0.375"(9.5mm) lead length R £KJA	10.0						¢J/W
Operating and Storage Temperature Range $T_{Ji}BT_A$	-55 TO +150						¢J

NOTES:

- 1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{rr}=.25A
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 Volts



RATING AND CHARACTERISTIC CURVES PS600R THRU PS608R

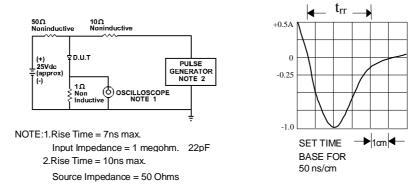
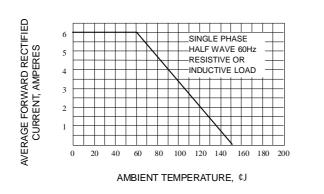


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



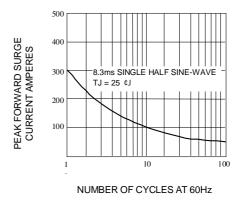
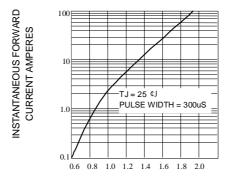


Fig. 2-FORWARD CHARACTERISTICS

Fig. 3-FORWARD CURRENT DERATING CURVE



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 4-TYPICAL FORWARD CHARACTERISTIC

