



FAST SWITCHING RECTIFIERS

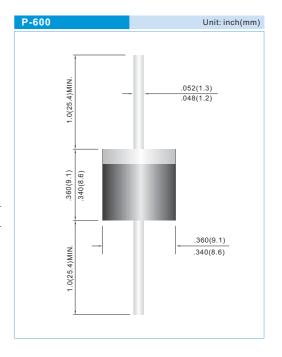
VOLTAGE 50 to 800 Volts CURRENT 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Glass passivated junction in P600 package.
- Exceeds environmental standards of MIL-S-19500/228
- 6 ampere operation at T_A=60°C with no thermal runaway.
- Fast switching for high efficiency.Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- · Case: Molded plastic, P600
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- · Mounting Position: Any
- Weight: 0.0719 ounce, 2.04 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

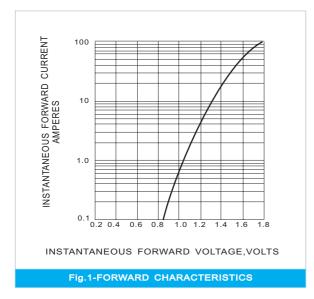
PARAMETER	SYMBOL	PS600R	PS601R	PS602R	PS604R	PS606R	PS608R	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	800	٧
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	٧
Maximum Average Forward Current .375"(9.5mm) lead length at $T_A = 60^{\circ}$ C	I _{F(AV)}	6.0						А
Peak Forward Surge Current : IFM (surge): 8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	300						Α
Maximum Forward Voltage at 6.0A	V _F	1.3						٧
Maximum Full Load Reverse Current Full Cycle Average at $T_{_J} {=} 25^{\circ} C$ Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{_J} {=} 100^{\circ} C$	I _R	10.0 500						
Maximum Reverse Recovery Time(Note 1)	t _{rr}	150			250	500	ns	
Typical Junction capacitance (Note 2)	C¹	300					pF	
Typical Junction Resistance at .375" (9.5mm) lead length	R _{eJA}	10						°C /
Operating and Storage Temperature Range	T _J ,T _{STG}	-50 to +150						°C

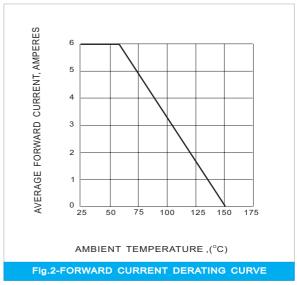
NOTES:1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, I_{II}=.25A

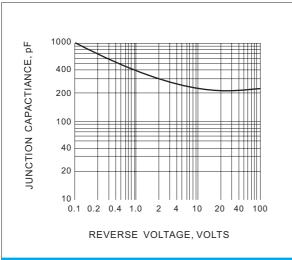
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC











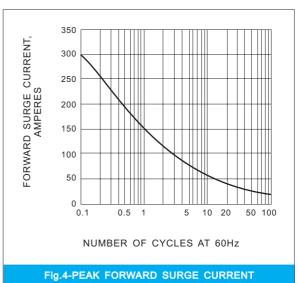
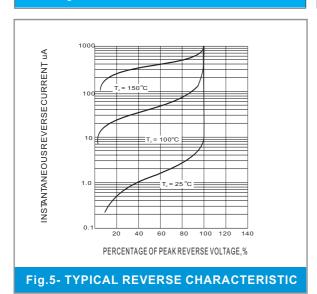


Fig.3-TYPICAL JUNCTION CAPACITANCE



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Part No_packing code_Version

PS600R_AY_00001 PS600R_AY_10001

PS600R_B0_00001

PS600R_B0_10001

PS600R_R2_00001 PS600R_R2_10001

For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code		
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	8	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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