

PS150R~PS1510R

FAST RECOVERY RECTIFIERS

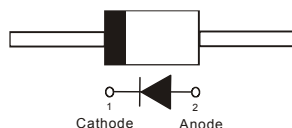
VOLTAGE	50 to 1000 Volt	CURRENT	1.5 Ampere
----------------	------------------------	----------------	-------------------

FEATURES

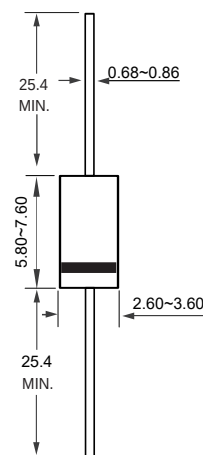
- High current capability
- Plastic package has Underwriters Laboratories
- Low leakage
- Fast switching for high efficiency
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



DO-15 Unit:mm



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	PS150R	PS151R	PS152R	PS154R	PS156R	PS158R	PS1510R	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current 0.375"(9.5mm) lead length at T _A =55°C	I _{F(AV)}	1.5							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50							A
Maximum Forward Voltage at 1.5A	V _F	1.3							V
Maximum DC Reverse Current at at Rated DC Blocking Voltage T _J =25°C T _J =100°C	I _R	5.0 100							μA
Typical Junction Capacitance	C _J	40							pF
Maximum Reverse Recovery Time	t _{rr}	150				250	500		ns
Typical Thermal Resistance	R _{θJA}	67							°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150							°C

PS150R~PS1510R

Figure 1
Typical Forward Characteristics

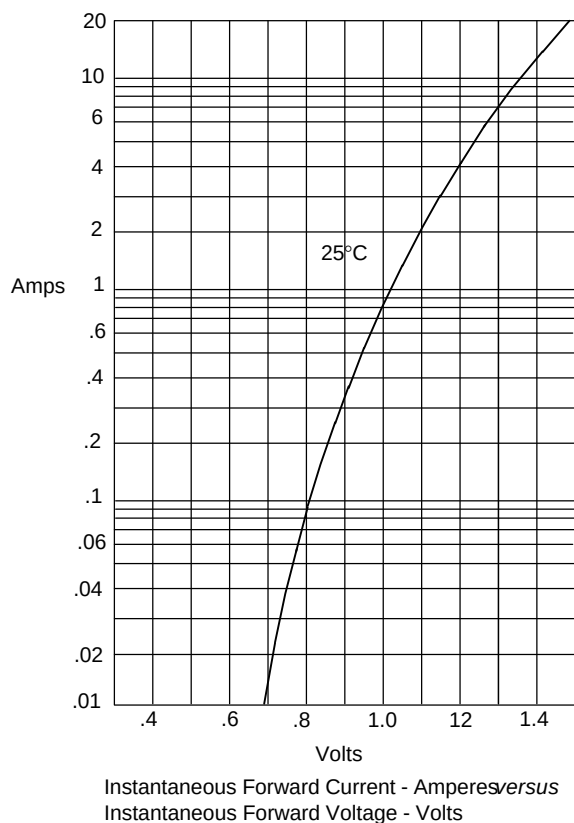


Figure 2
Forward Derating Curve

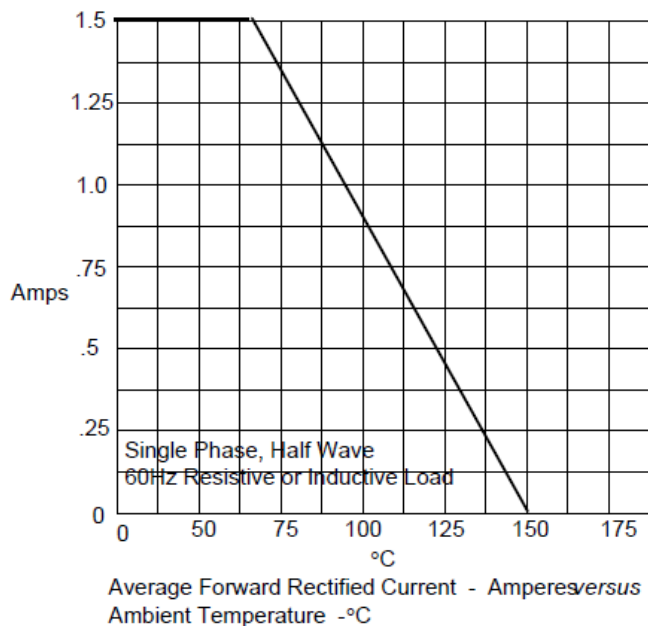


Figure 4
Maximum Non-Repetitive Forward Surge Current

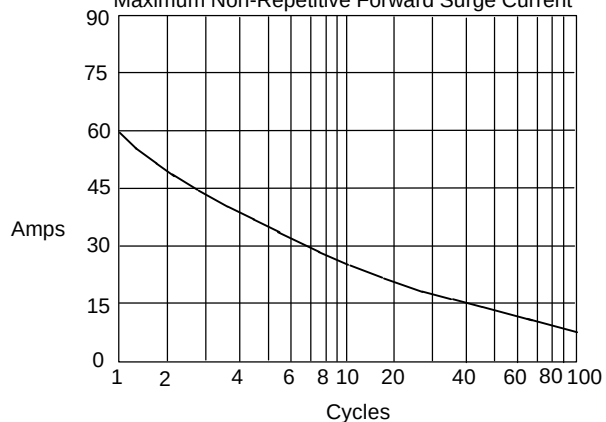
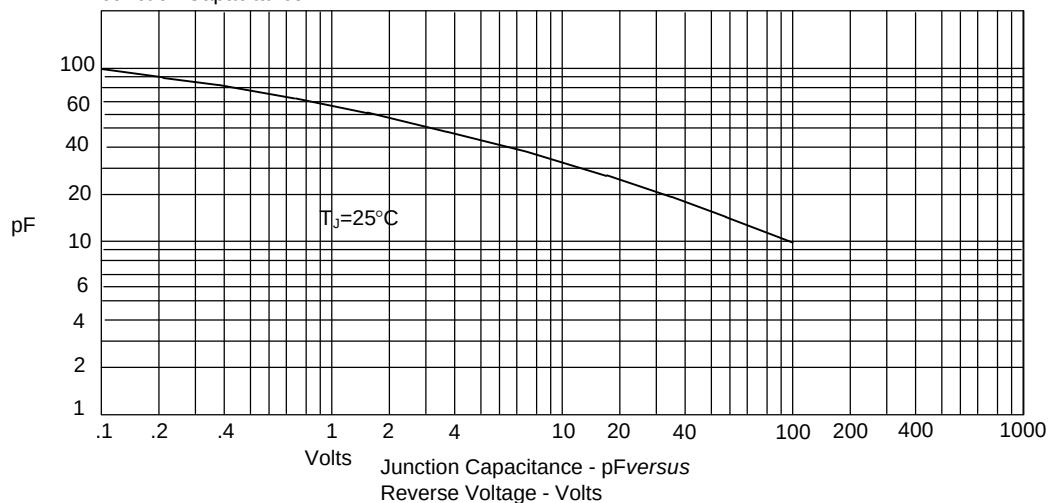


Figure 3
Junction Capacitance



PS150R~PS1510R

Ordering Information

- **Packing information**

PS150R~PS1510R	Packing Quantity
Tape&Reel	13 Inch; 4kpcs/Reel
Ammo Packing	3kpcs/Ammo Box
Bulk(Tube/Box)	1kpcs/Box