



HIGH CURRENT PLASTIC SILICON RECTIFIERS

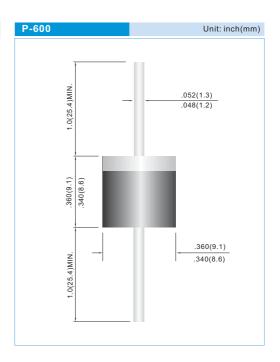
VOLTAGE 50 to1000 Volts CURRENT 6.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · High current capability.
- Exceeds environmental standards of MIL-S-19500/228
- · Low leakage.
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICALDATA

- · Case: Molded plastic, P-600
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode
- 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.

SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P600M	UNITS
V _{RRM}	50	100	200	400	600	800	1000	V
V _{RMS}	35	70	140	280	420	560	700	٧
V _{DC}	50	100	200	400	600	800	1000	V
I _{F(AV)}	6.0							Α
I _{FSM}	400							А
V _F	1.0							V
I _R	10 1000							μА
C	150							pF
R _{eja} R _{ejl}	20 4.0						°C / W	
T _J ,T _{STG}	-55 to +150						°C	
	$\begin{array}{c} V_{RRM} \\ V_{RMS} \\ \end{array}$ $\begin{array}{c} V_{DC} \\ \\ I_{F(AV)} \\ \end{array}$ $\begin{array}{c} I_{FSM} \\ \\ V_{F} \\ \end{array}$ $\begin{array}{c} C_{J} \\ \\ R_{\theta JL} \\ \end{array}$	V _{RRM} 50 V _{RMS} 35 V _{DC} 50 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0JA} R _{0JL}	V _{RRM} 50 100 V _{RMS} 35 70 V _{DC} 50 100 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0JA} R _{0JA} R _{0JL}	V _{RRM} 50 100 200 V _{RMS} 35 70 140 V _{DC} 50 100 200 I _{F(AV)} I _{FSM} V _F I _R C _J R _{0JA} R _{0JL}	V _{RRM} 50 100 200 400 V _{RMS} 35 70 140 280 V _{DC} 50 100 200 400 I _{F(AV)} 6.0 I _{FSM} 400 V _F 1.0 I _R 10 C _J 150 R _{0JA} R _{0JL} 20 4.0	V _{RRM} 50 100 200 400 600 V _{RMS} 35 70 140 280 420 V _{DC} 50 100 200 400 600 I _{F(AV)} 6.0 V _F 1.0 I _R 10 1000 C _J 150 R _{GJA} R _{GJL} 20 4.0	V _{RRM} 50 100 200 400 600 800 V _{RMS} 35 70 140 280 420 560 V _{DC} 50 100 200 400 600 800 I _{F(AV)} 6.0 V _F 1.0 I _R 10 1000 C _J 150 R _{0JA} R _{0JL} 20 4.0	V _{RRM} 50 100 200 400 600 800 1000 V _{RMS} 35 70 140 280 420 560 700 V _{DC} 50 100 200 400 600 800 1000 I _{F(AV)} 6.0 400 400 400 400 400 400 400 400 600 800 1000

NOTES

- 1.Peak forward surge current, per 8.3ms single half- sine-wave superimposed on rated load (JEDEC method)
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3.Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm) P.C.B. mounted with $1.0 \times 1.0 (30 \times 30mm)$ copper pads.

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RATING AND CHARACTERISTIC CURVES

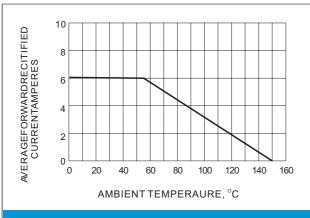


Fig.1- FORWARD CURRENT DERATING CURVE

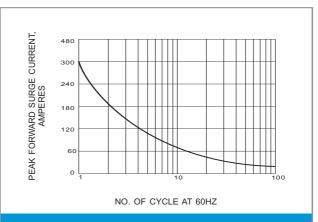


Fig.2- MAXIMUM FORWARD SURGE CURRENT

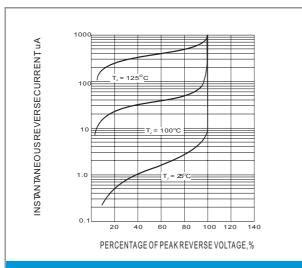


Fig.3-TYPICAL REVERSE CHARACTERISTIC

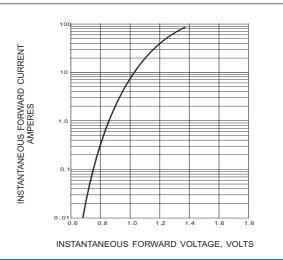


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC



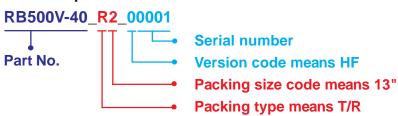


Part No_packing code_Version

P600A_AY_00001 P600A_AY_10001 P600A_B0_00001 P600A_B0_10001 P600A_R2_00001

P600A_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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