DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

6A05 / P600A THRU 6A10 / P600M

TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

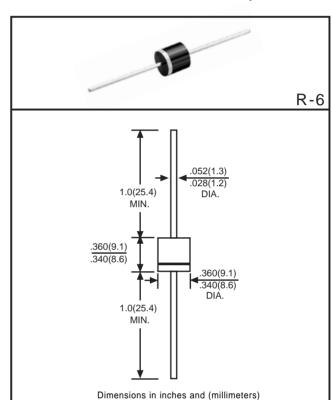
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rated flame retardant
- * Lead: MIL-STD-202E, Method 208 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 2.08 gram approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.



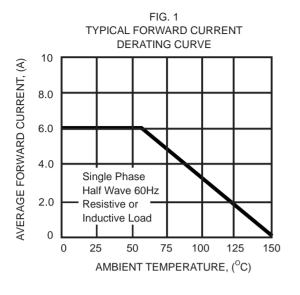
		6A05	6A1	6A2	6A4	6A6	6A8	6A10	
	SYMBOL	P600A	P600B	P600D	P600G	P600J	P600K	P600M	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	Vdc	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375"(9.5mm) lead length at $T_A = 60^{\circ}C$	lo	6.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	300							Amps
Maximum Instantaneous Forward Voltage at 6.0A DC	VF		1.1						Volts
Maximum DC Reverse Current at Rated@ TA=25°CDC Blocking Voltage@ TA=100°		10 500							μAmps
Maximum Full Load Reverse Current Average, Full Cycle .375"(9.5mm) lead length at T∟ = 75 [°] C	IK	50							
Typical Junction Capacitance (Note 1)	CJ		150						pF
Typical Thermal Resistance (Note 2)	R _{0J} A	10						°C/W	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

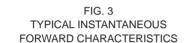
Note 1: Measured at 1 MHz and applied reverse voltage of 4.0 volts.

Note 2: Typical thermal resistance from junction to ambient.

CURRENT - 6.0 Amperes

RATING AND CHARACTERISTIC CURVES (6A05 THRU 6A10) P600A P600M)





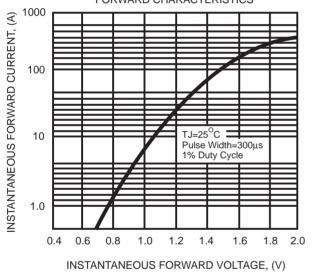


FIG. 5 TYPICAL JUNCTION CAPACITANCE 1000 JUNCTION CAPACITANCE, (pF) Ħ Ħ 100 Ш TJ=25^OC 10 .2 20 40 .1 .4 1.0 2 4 10 100 REVERSE VOLTAGE, (V)

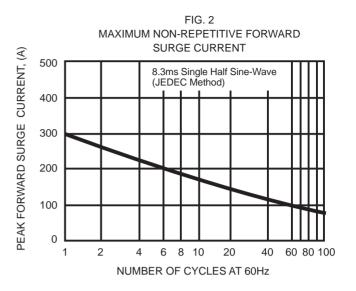
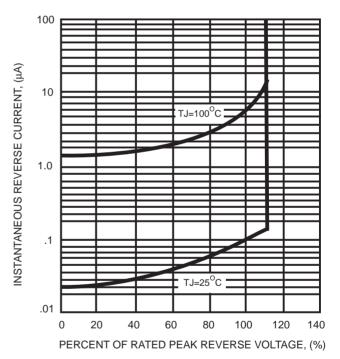


FIG. 4 TYPICAL REVERSE CHARACTERISTICS



Disclaimer

Any Customer or user of this document or products described herein in such applications shall assume all risks of such use and will agree to hold *DC COMPONENTS* are harmless against all damages.

DC COMPONENTS disclaims any and all liability arising out of the application or use of any product, including consequential or incidental damages. Statement regarding the suitability of products for certain types of applications are based on *DC COMPONENTS*'s knowledge of typical requirements that are often placed on *DC COMPONENTS*'s knowledge of statements are not binding statements about the suitability of products for aparticular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.

DC COMPONENTS reserve the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein, and disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Parameters provided in datasheets and specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify *DC COMPONENTS*'s terms and conditions of purchase, including but not limited to the warranty expressed therein.

Unless otherwise in writing, *DC COMPONENTS* products are intended for use as general electronic components in standard applications (eg: Consumer electronic, Computer equipment, Office equipment, etc.), and not recommended for use in a high specific application where a failure or malfunction of the device could result in human injury or death (eg: Aerospace equipment, Submarine cables, Combustion equipment, Safety devices, Life support systems, etc.)

Customers using or selling *DC COMPONENTS* products not expressly indicated for use in such applications do so at their own risk. If customer intended to use *DC COMPONENTS* standard quality grade devices for applications not envisioned by *DC COMPONENTS*, please contact our sales representatives in advance.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by DC Components manufacturer:

Other Similar products are found below :

 RD0306T-H
 BAV17-TR
 BAV19-TR
 IN3611
 NTE156A
 NTE525
 NTE571
 NTE574
 NTE5804
 NTE6244
 ISS181-TP

 ISS193,LF
 ISS400CST2RA
 SDAA13
 SHN2D02FUTW1TIG
 LS4151GS08
 IN4449
 IN456A
 IN4934-E3/73
 IN914B
 IN914BTR

 BAV199-TP
 BAW56DWQ-7-F
 BAW75-TAP
 MM230L-CAA
 IDW40E65D1
 JAN1N3600
 LL4151-GS18
 053684A
 SMMSD4148T3G

 707803H
 NSVDAN222T1G
 SP000010217
 CDSZC01100-HF
 BAV199E6433HTMA1
 BAV70M3T5G
 SMBT2001T1G
 NTE5801
 NTE5800

 NTE5808
 NTE6240
 NTE6248
 BAS28-7
 BAW56HDW-13
 BAS28 TR
 VS-HFA04SD60STR-M3
 NSVM1MA152WKT1G
 BAV99TQ-13-F

 BAS21DWA-7
 INTE5808
 INTE6248
 INTE6248
 INTE5808
 INTE6248
 INTE6248
 INTE5601
 INTE5808