



D3K6005 THRU D3K610

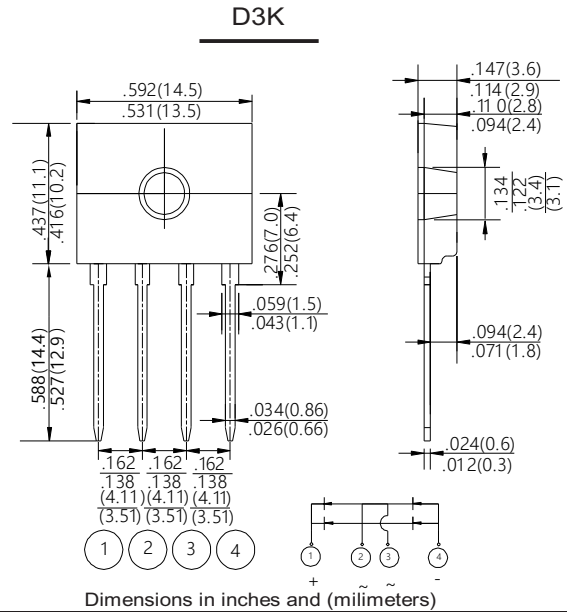
BRIDGE RECTIFIERS GLASS PASSIVATED
 REVERSE VOLTAGE - 50 to 1000Volts
 FORWARD CURRENT - 6.0 Amperes

FEATURES

- Glass passivated chip junction
- High case dielectric strength
- High surge current capability
- Ideal for printed circuit board

MACHANICAL DATA

- Terminal:Plated leads solderable per MIL-STD 202E, Method 208C
- Case:UL-94 Class V-0 recognized Flame Retardant Epoxy
- Polarity:Polarity symbol marked on body
- Mounting position:any



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	D3K 6005	D3K 601	D3K 602	D3K 604	D3K 606	D3K 608	D3K 610	UNIT
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 Rectified Output Current @ T _c =90°C (with heatsink) @ T _c =90°C (without heatsink)	I <sub(av)< sub=""></sub(av)<>	6.0 3.0							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	150							A
Maximum Forward Voltage at 6.0A DC	V _F	1.1							V
I ² t Rating for Fusing (t<8.3ms)	I ² t	93.375							A ² s
Maximum Typical Thermal Resistance	R _{θJA} R _{θJL}	55 15							°C/W
Maximum DC Reverse Current @ T _a =25°C at Rated DC Blocking Voltage @ T _a =125°C	I _R	10 500							μA
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

RATING AND CHARACTERISTIC CURVES D3K6005 THRU D3K610

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

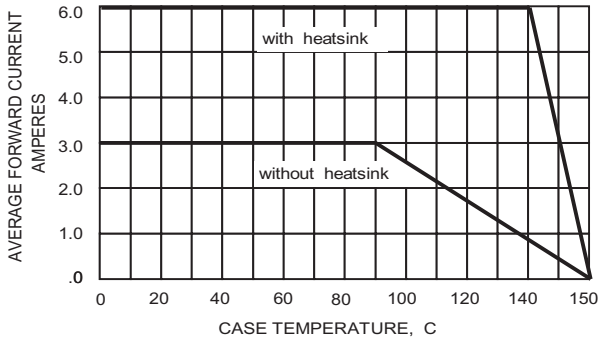


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

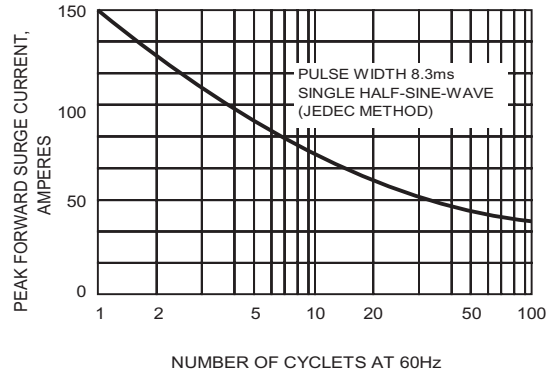


FIG.3-TYPICAL FORWARD CHARACTERISTICS

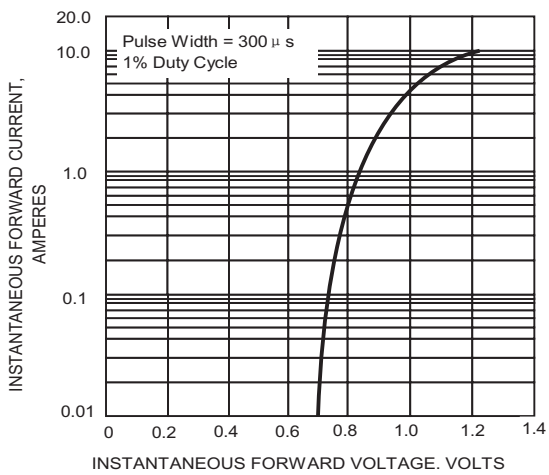


FIG.5-TYPICAL REVERSE CHARACTERISTICS

