

GLASS PASSIVATED BRIDGE RECTIFIERS	<p>REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 3.0 Amperes</p>
<p>FEATURES</p> <ul style="list-style-type: none"> ● Glass passivated chip junction ● High case dielectric strength ● High surge current capability <p style="padding-left: 20px;">Ideal for printed circuit board</p> <p>MACHANICAL DATA</p> <ul style="list-style-type: none"> ● 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 	<p>D3K</p> <p>Dimensions in inches and (millimeters)</p>

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	D3KB05	D3KB1	D3KB2	D3KB4	D3KB6	D3KB8	D3KB10	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 =140°C (with heatsink) @ T _a =29°C (without heatsink)	I _(AV)	3 1.2								A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	90								A
Maximum Forward Voltage at 1.5A DC	V _F	1.05								V
I ² t Rating for Fusing (t<8.3ms)	I ² t	35								A ² s
Maximum Typical Thermal Resistance without heatsink	R _{θJa}	55								°C/W
with heatsink	R _{θJc}	1.5								
without heatsink	R _{θJL}	15								
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T _a =25°C @ T _a =125°C	I _R	10.0 500								µA
Operating Temperature Range	T _J	-55 to +150								°C
Storage Temperature Range	T _{STG}	-55 to +150								°C

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

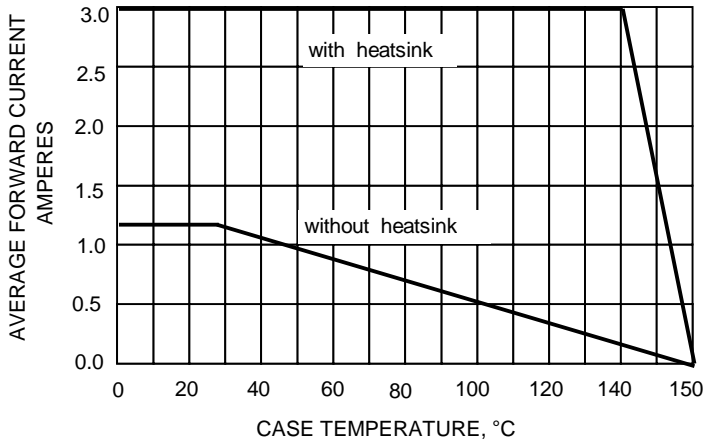


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

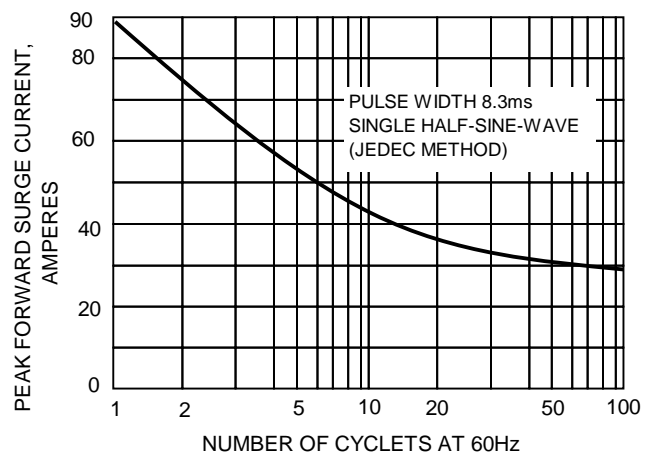


FIG.3-TYPICAL FORWARD CHARACTERISTICS

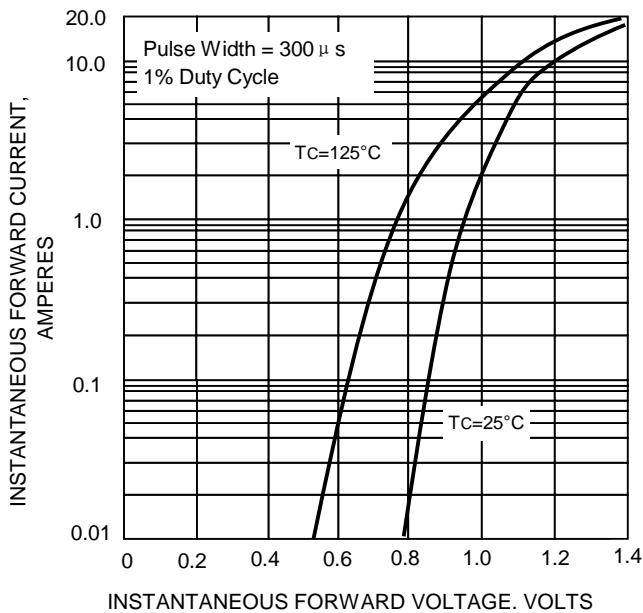


FIG.5-TYPICAL REVERSE CHARACTERISTICS

