

GLASS PASSIVATED BRIDGE RECTIFIERS
VOLTAGE 1000 Volts CURRENT 2.0 Ampere

FEATURES

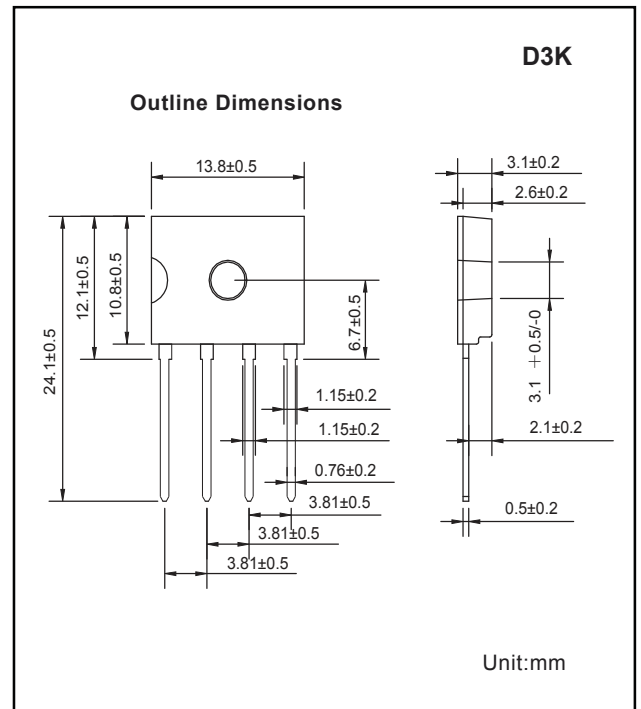
Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit board

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

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	DRS201K	DRS202K	DRS203K	DRS204K	DRS205K	DRS206K	DRS207K	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 =138°C (with heatsink)	I _(AV)	2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I _{FSM}	60							A
Maximum Forward Voltage at 2.0A DC	V _F	1.1							V
I ² t Rating for Fusing (t<8.3ms)	I ² t	14.94							A ² s
Typical Thermal Resistance	without heatsink	R _{θJa}							°C/W
	with heatsink	R _{θJC}							
	without heatsink	R _{θJL}							
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T _a =25°C	I _R							μA
	@ T _a =125°C	500							
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

RATING AND CHARACTERISTICS CURVES (DRS201K THRU DRS207K)

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

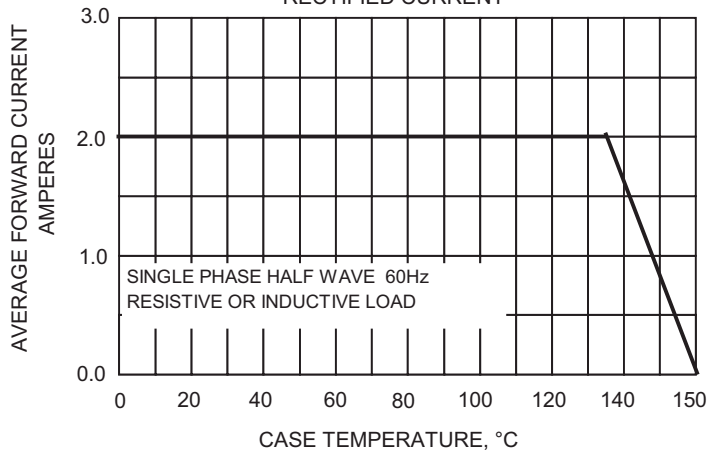


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

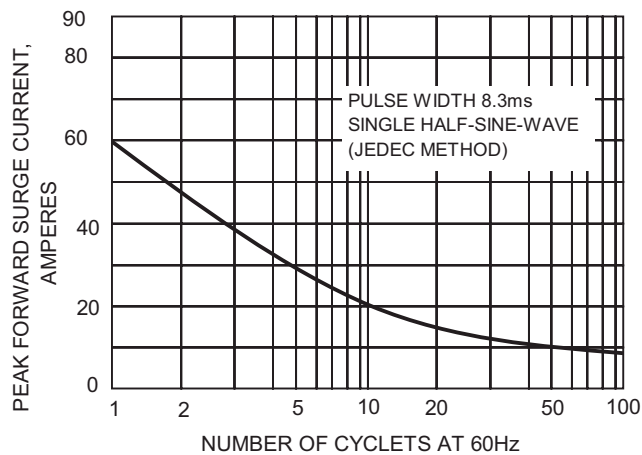


FIG.3-TYPICAL JUNCTION CAPACITANCE

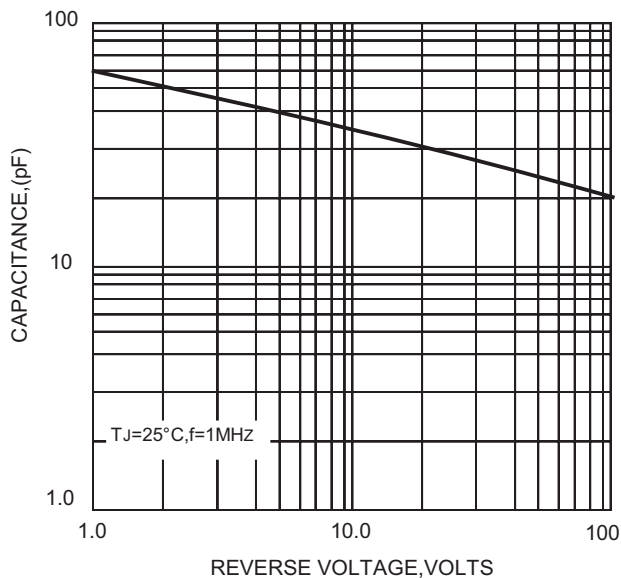


FIG.3-TYPICAL FORWARD CHARACTERISTICS

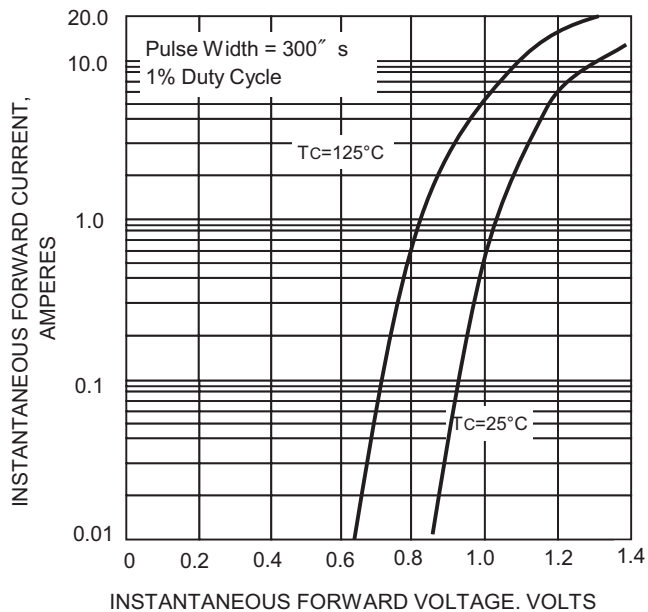
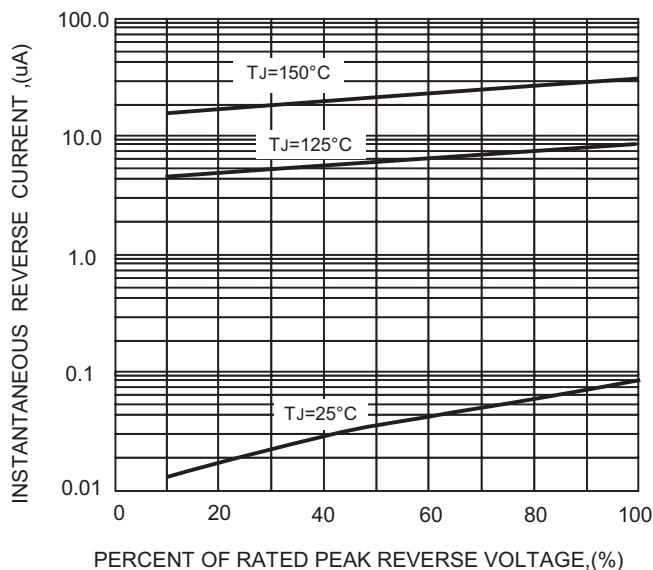
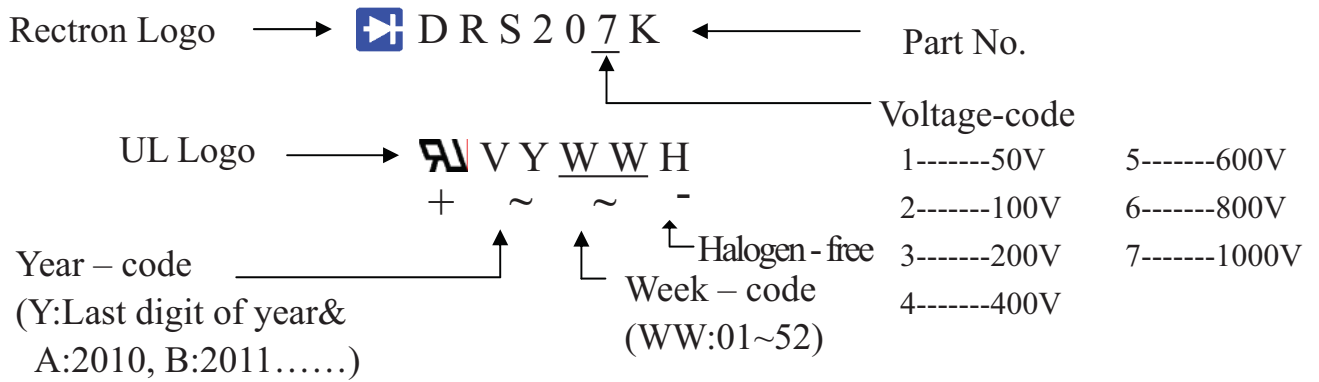


FIG.5-TYPICAL REVERSE CHARACTERISTICS



Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
D3K	-B	500	181*183*37	378*202*200	5,000	9.0

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
D3K	-C	3,000	491*145*133	498*330*160	6,000	13.2

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