

**GLASS PASSIVATED BRIDGE RECTIFIERS**  
VOLTAGE 1000 Volts CURRENT 2.0 Ampere

**FEATURES**

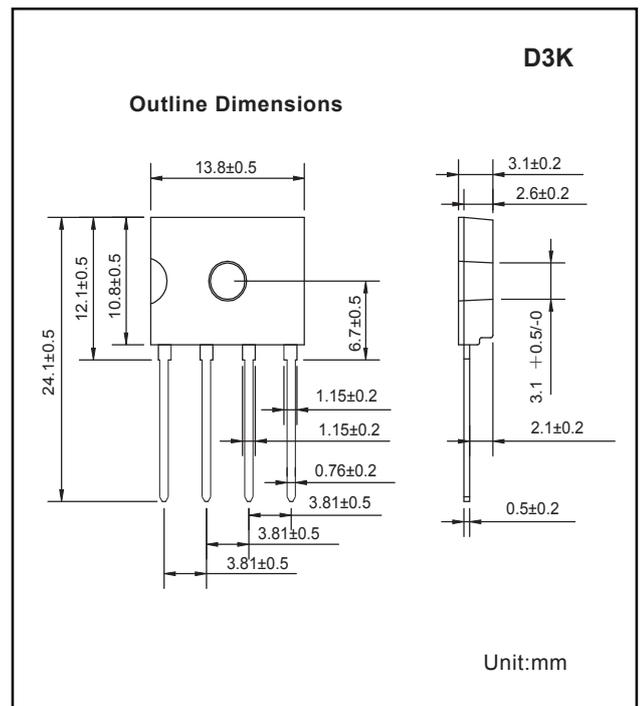
Glass passivated chip junction  
High case dielectric strength  
High surge current capability  
Ideal for printed circuit board

**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 <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ T <sub>c</sub> =138°C (with heatsink)	I <sub>(AV)</sub>	2							A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)	I <sub>FSM</sub>	60							A
Maximum Forward Voltage at 2.0A DC	V <sub>F</sub>	1.1							V
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	I <sup>2</sup> t	14.94							A <sup>2</sup> s
Typical Thermal Resistance	without heatsink	R <sub>θJa</sub>							°C/W
	with heatsink	R <sub>θJC</sub>							
	without heatsink	R <sub>θJL</sub>							
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ T <sub>a</sub> =25°C	I <sub>R</sub>							μA
	@ T <sub>a</sub> =125°C	500							
Operating Temperature Range	T <sub>J</sub>	-55 to +150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

# RATING AND CHARACTERISTICS CURVES ( DRS201K THRU DRS207K )

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

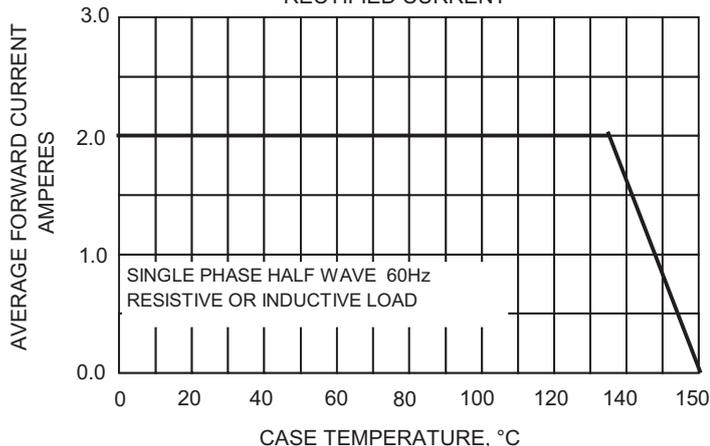


FIG.2-MAXIMUM NON-REPETITIVE SURGE CURRENT

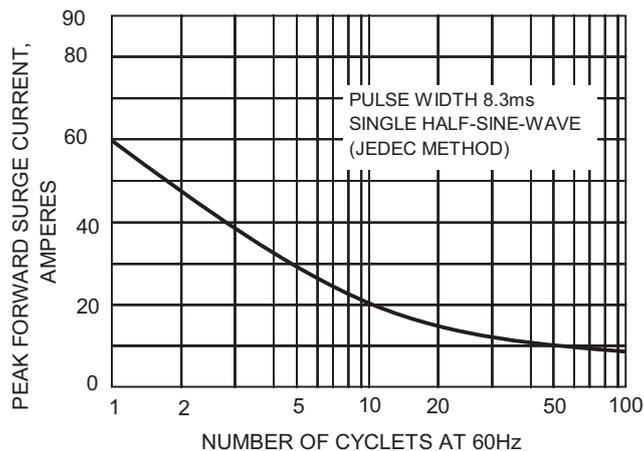


FIG.3-TYPICAL JUNCTION CAPACITANCE

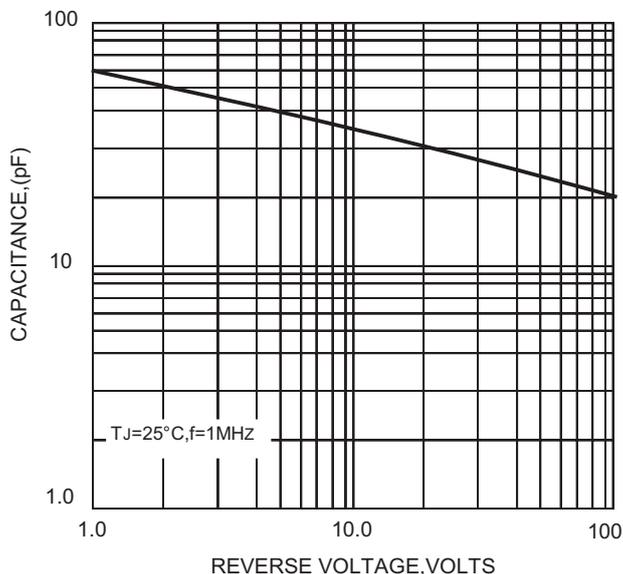


FIG.3-TYPICAL FORWARD CHARACTERISTICS

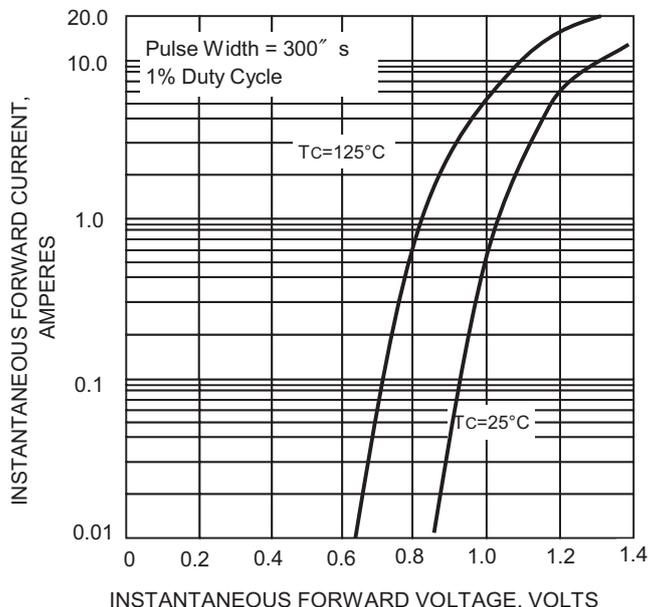
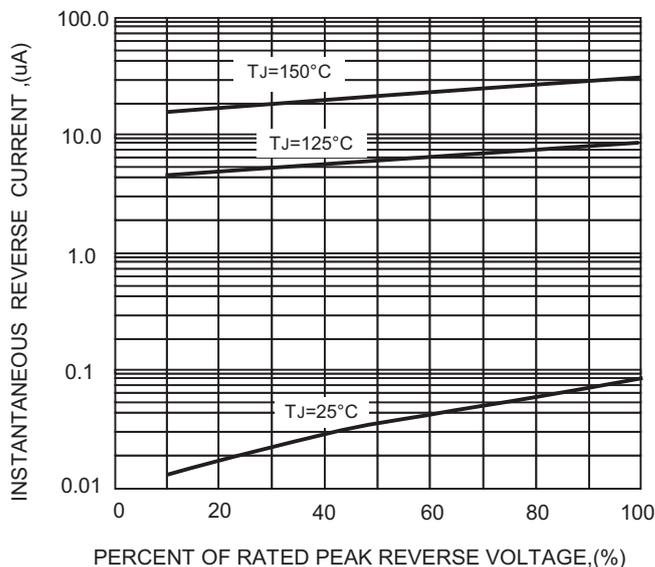
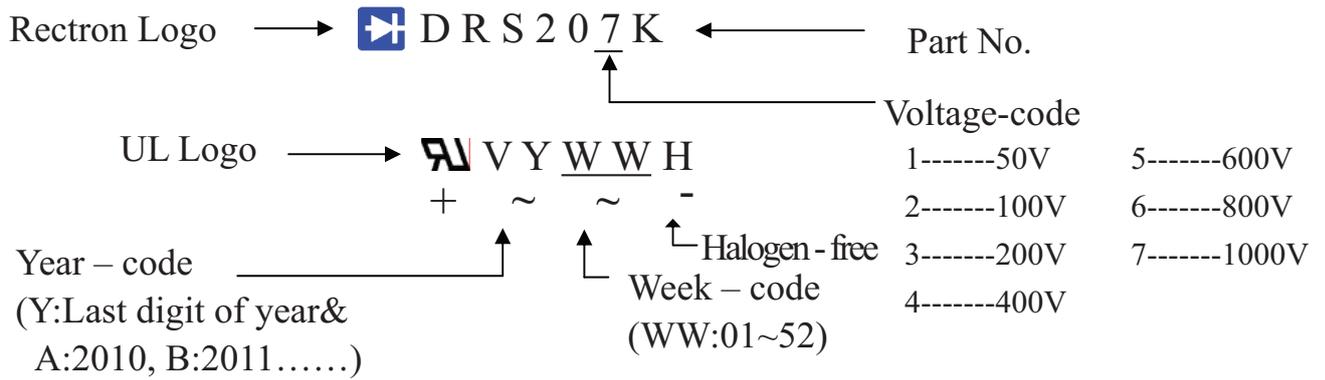


FIG.5-TYPICAL REVERSE CHARACTERISTICS



## 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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