

GLASS PASSIVATED BRIDGE RECTIFIERS
VOLTAGE 50 to 1000 Volts CURRENT 4.0 Ampere

FEATURES

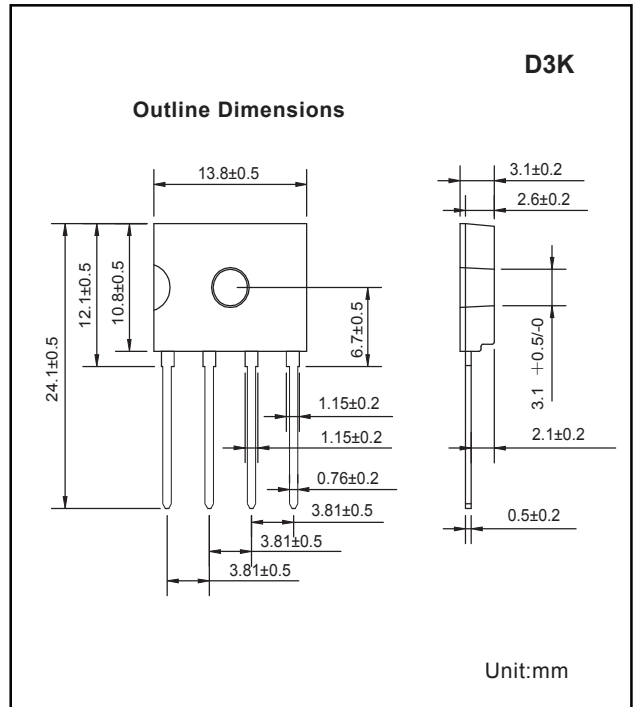
Glass passivated chip junction
High case dielectric strength
High surge current capability
Ideal for printed circuit board

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	DRS401K	DRS402K	DRS403K	DRS404K	DRS405K	DRS406K	DRS407K	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 @ $T_c=98^\circ\text{C}$ (with heatsink)	$I_{(AV)}$	4							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 4.0A DC @ $T_a=25^\circ\text{C}$ @ $T_a=125^\circ\text{C}$	V_F	1.05 0.88							V
I^2t Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	93.4							A^2s
Typical Thermal Resistance									
without heatsink	$R_{\theta Ja}$	30							$^\circ\text{C/W}$
with heatsink	$R_{\theta Jc}$	5.5							
without heatsink	$R_{\theta JL}$	6							
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_a=25^\circ\text{C}$ @ $T_a=125^\circ\text{C}$	I_R	5.0 30							μA
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

RATING AND CHARACTERISTICS CURVES (DRS401K THRU DRS407K)

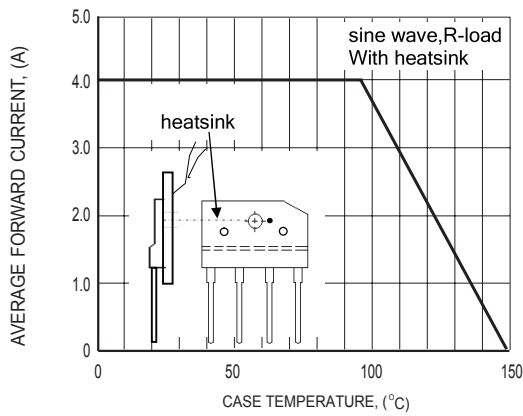


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

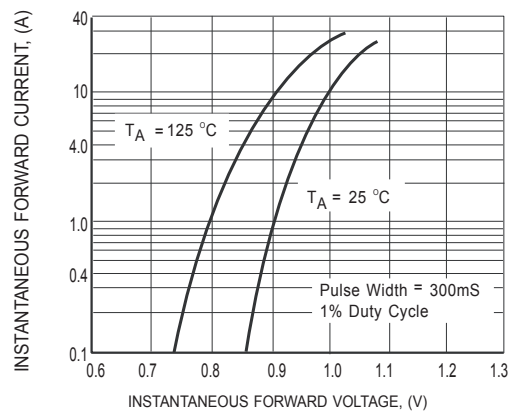


FIG.2 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

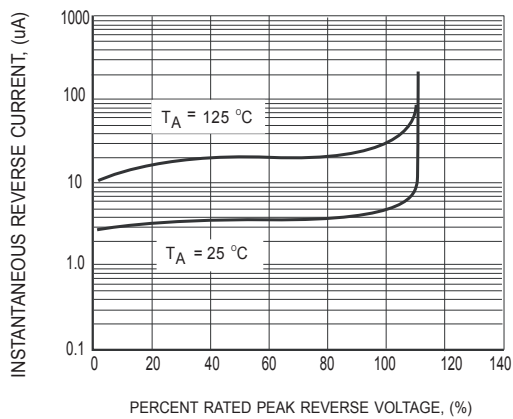


FIG.3 MAXIMUM REVERSE CHARACTERISTICS

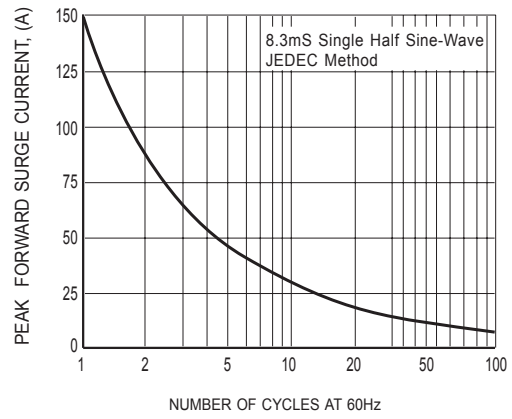
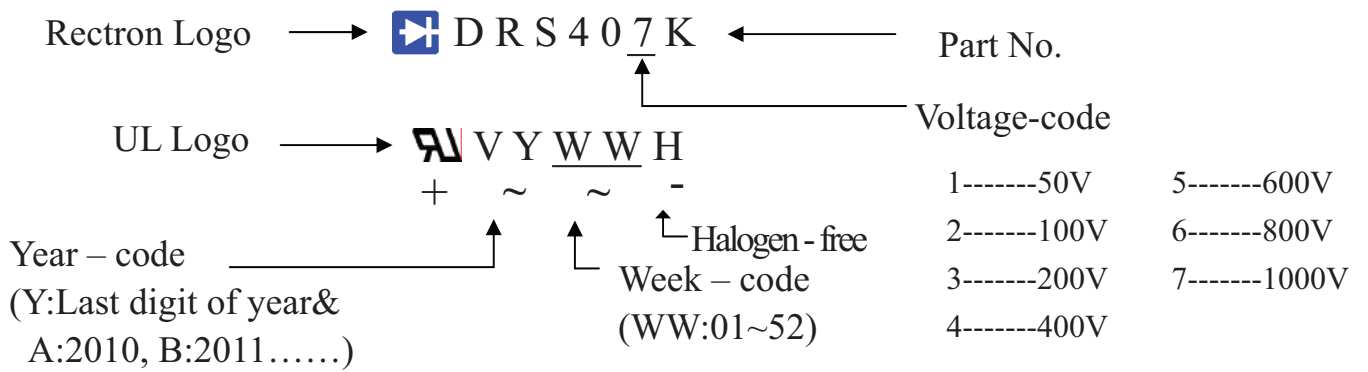


FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

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	600	280*105*26	300*240*170	6,000	9.2

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
D3K	-C	1,500	450*154*60	470*340*210	9,000	20.89

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