

DRS301K THRU DRS307K

# GLASS PASSIVATED BRIDGE RECTIFIERS VOLTAGE 50 to 1000 Volts CURRENT 3.0 Ampere

### **FEATURES**

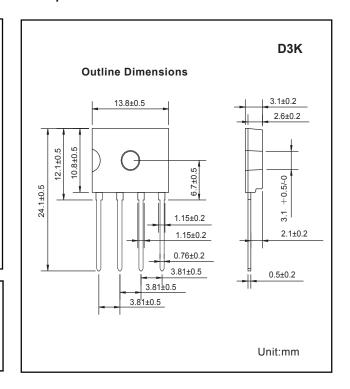
Glass passivated chip junction High case dielectric strength High surge current capability Ideal for printed circuit board

### **MACHANICAL DATA**

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

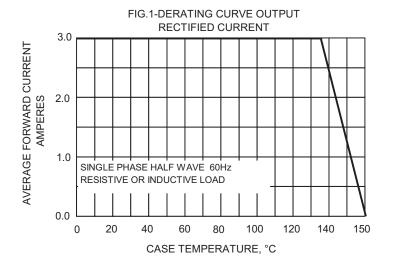
### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTIS

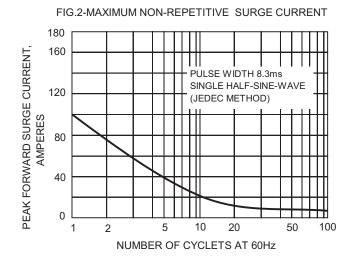
Rating at  $25\,^{\circ}\text{C}$  ambient temperature unless otherwise specified. Single phase, half wave ,60 Hz, resistive or inductive load. For capa citive load , derate current by 20%

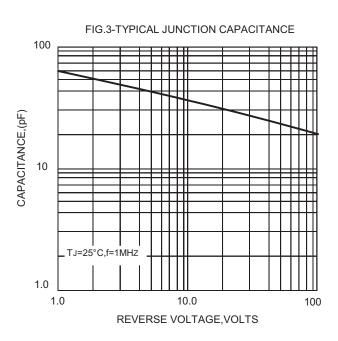


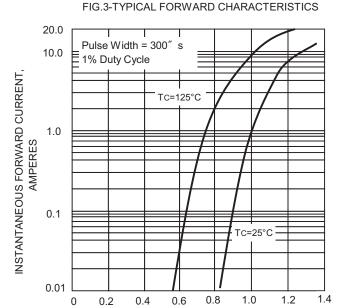
CHARACTERISTICS		SYMBOL	DRS301K	DRS302K	DRS303K	DRS304K	DRS305K	DRS306K	DRS307K	UNIT
Maximum Recurrent Peak Reverse	e Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current @ Tc=138°C (with heatsink)		l(AV)	3							А
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load (JE	lгsм	100							A	
Maximum Forward Voltage at 3.0A DC		VF	1.1						V	
I <sup>2</sup> t Rating for Fusing (t<8.3ms)	l <sup>2</sup> t	41.5						A <sup>2</sup> s		
Typical Thermal Resistance without heatsink with heatsink		RθJa	55							
		Rejc	1.5							°C/W
	without heatsink	Røjl	15							
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ Ta =25°C @ Ta =125°C	lR	1.0 500						μA	
Operating Temperature Range		TJ	-55 to +150						οС	
Storage Temperature Range		Тѕтс	-55 to +150						٥C	

## RATING AND CHARACTERISTICS CURVES (DRS301K THRU DRS307K)



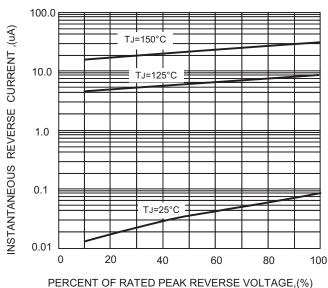






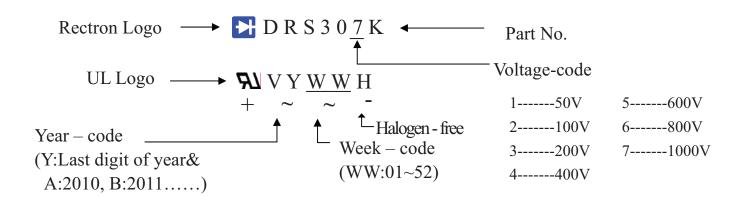
INSTANTANEOUS FORWARD VOLTAGE. VOLTS

#### 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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