

RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

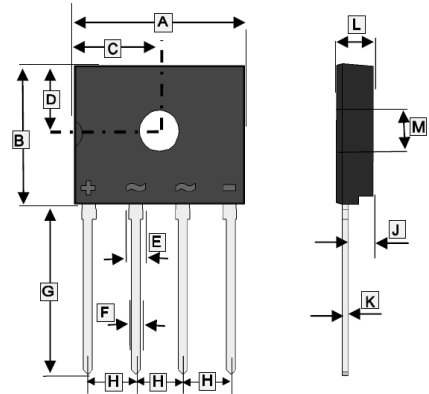
### FEATURES

- $I_o$  : 8A
- $V_{RRM}$  : 50~1000V
- Glass passivated chip
- High surge forward current capability

### APPLICATIONS

- General purpose 1 phase Bridge rectifier applications

D3K



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	13.3	14.3	G	13.1	13.5
B	10.3	11.3	H	3.7	3.9
C	6.4	7.4	J	2.0	2.2
D	4.5	5.5	K	0.4	0.6
E	1.05	1.45	L	2.6	3.6
F	0.60	0.85	M	3.1	3.4

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating 25°C ambient temperature unless otherwise specified. Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, de-rate current by 20%.)

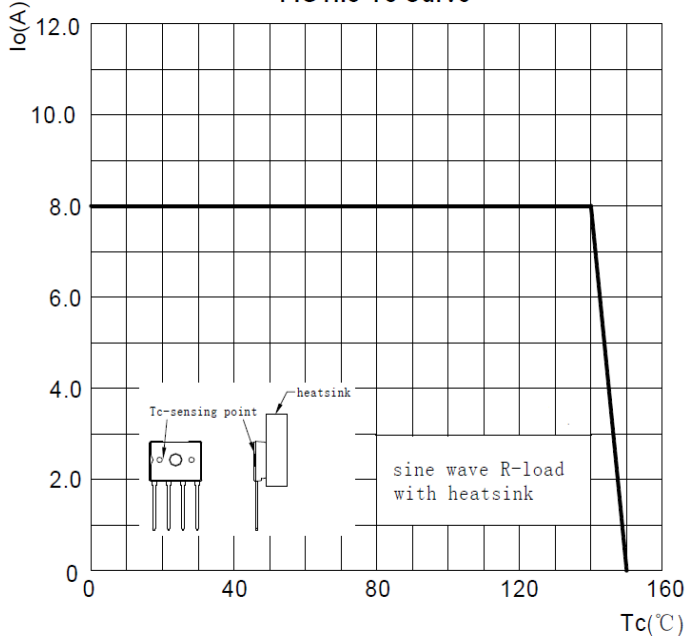
Parameter	Symbol	Part Number							Unit
		D8UB 05	D8UB 10	D8UB 20	D8UB 40	D8UB 60	D8UB 80	D8UB 100	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Average Rectified Output Current @ 60Hz sine wave, R-load	Without heatsink $T_A=29^{\circ}C$	1.5							A
	With heatsink $T_C=140^{\circ}C$	8.0							
Surge (Nonrepetitive) Forward Current @ 60Hz sine wave, 1 cycle, $T_J=25^{\circ}C$	$I_{FSM}$	170							A
Current Squared Time <sup>1</sup>	$I^2t$	120							A <sup>2</sup> S
Dielectric Strength@ Terminals to case , AC 1 minute	$V_{DIS}$	2							KV
Mounting Torque@ Recommend torque : 5kg.cm	Tor	8							Kg.cm
Peak Forward Voltage@ $I_{FM}=4A$ , Pulse measurement, Rating of per diode	$V_{FM}$	1.1							V
Peak Reverse Current@ $V_{RM}=V_{RRM}$ , Pulse measurement, Rating of per diode	$I_{RRM}$	10							$\mu A$
Thermal Resistance	Without heatsink	55							$^{\circ}C / W$
	With heatsink	1.5							
Junction and Storage temperature range	$T_J, T_{STG}$	-55~+150							$^{\circ}C$

Notes :

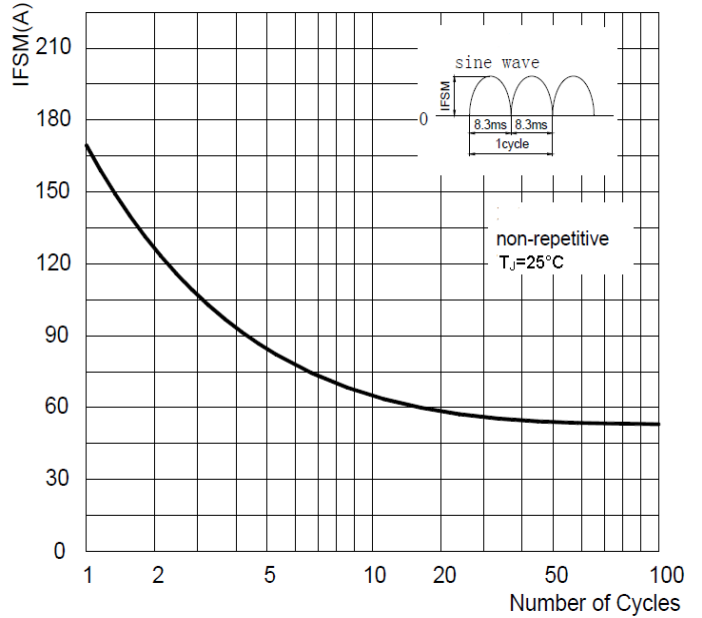
1.  $1ms \leq t < 8.3ms$   $T_J=25^{\circ}C$  , Rating of per diode

**RATINGS AND CHARACTERISTIC CURVES**

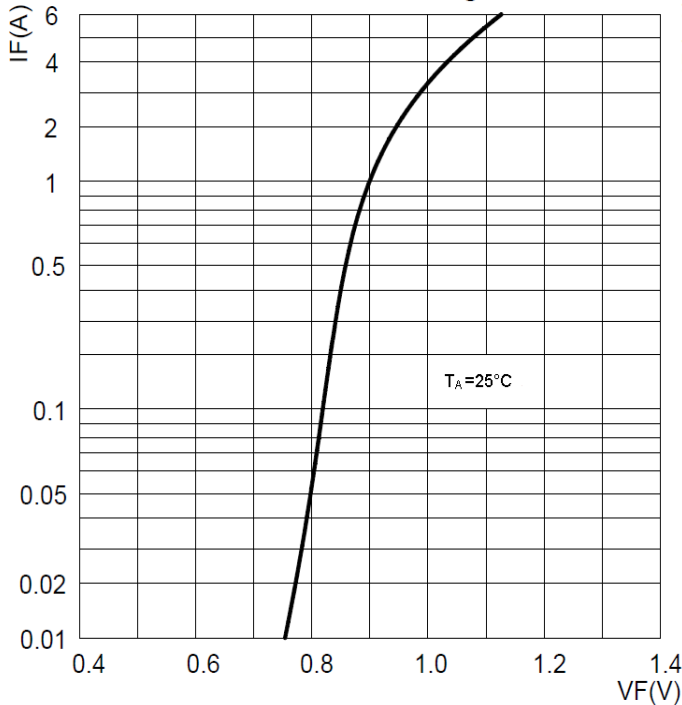
**FIG1: I<sub>o</sub>-T<sub>c</sub> Curve**



**FIG2: Surge Forward Current Capacity**



**FIG3: Forward Voltage**



**FIG4: Typical Reverse Characteristics**

