

RD8UB80 THRU RD8UB100

r a t i n g , R o H S - c o m p l i a n t
x **Terminals:** Tin plated leads, solderable per
J-STD-002 and JESD22-B102

- **Polarity:** As marked on body

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	RD8UB80	RD8UB100
Device marking code			RD8UB80	RD8UB100
Maximum Repetitive Peak Reverse Voltage	VRRM	Ń RRM		VDC V

Average rectified output current @60Hz sine wave, R-load	With heatsink T _C =120	I _O	A	8.0	
	Without heatsink T _A =25			1.5	
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, T _J =25		I _{FSM}	A	160	
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _J =25				320	
Current squared time @1ms≤t≤8.3ms T _J =25 , Rating of per diode		I ² t	A ² s	106.2	
Storage temperature		T _{stg}			



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■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	RD8UB80	RD8UB100
Maximum reverse recovery time	t_{rr}	ns	$I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$	500	
Maximum instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=4.0A$	1.3	
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$	5	
			$T_j=125$	100	
Typical junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	47	

■Thermal Characteristics $T_a=25$ Unless otherwise specified

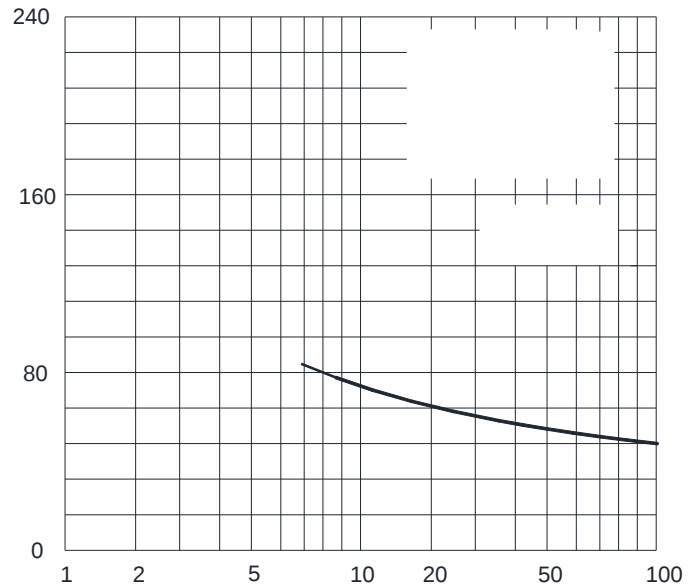
PARAMETER		SYMBOL	UNIT	RD8UB80	RD8UB100
Thermal resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$	/W	55.0	
	Between junction and case, With heatsink	$R_{\theta J-C}$		1.5	

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
RD8UB80-RD8UB100	B1	Approximate 1.269	25 S	1500 80 C	6000	TUBE O

■ Characteristics (Typical)





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FIG3: Typical Forward Voltage

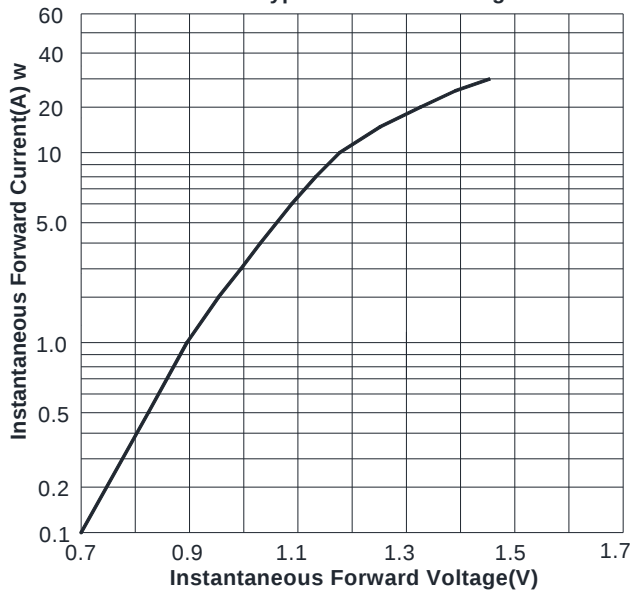
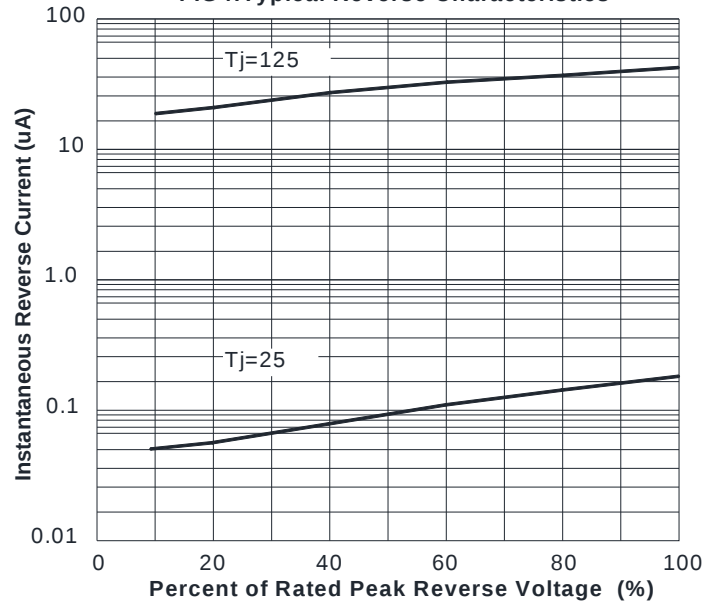


FIG4: Typical Reverse Characteristics

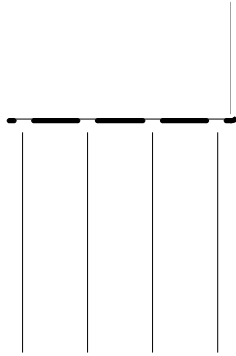




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■ Outline Dimensions

D3K



Dimensions in millimeters

D3K		
Dim	Min	Max
A	13.30	14.30
B	10.30	11.30
C	6.40	7.40
D	4.50	5.50
E	1.05	1.45
F	0.60	0.85
G	3.70	3.90
H	13.10	13.50
I	2.60	3.60
J	3.10	3.40
K	2.00	2.20
L	0.40	0.60
M	0.90	1.50



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