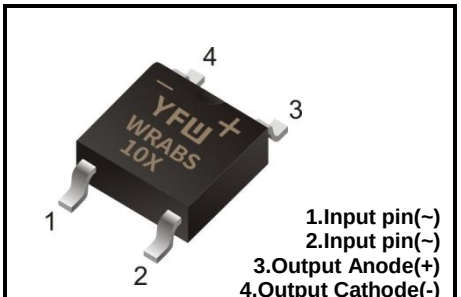
WRABS10J THRU WRABS10M ABS

1.0A UITRASOFT RECOVERY BRIDGE
RECTIFIER Reverse Voltage – 600 to 1000 V
Forward Current – 1.0A



ABS/LBF

Marking Code	
WRABS10J	WRABS10J
WRABS10K	WRABS10K
WRABS10M	WRABS10M

FEATURES

- Uitrasoft recovery
- Low I_{RRM}, Low VF, Low V_{RRM}
- Glass Passivated Chip Junction
- Special frame design for heat dissipation
- Lead free in comply with EU RoHS 2011/65/EU directives

BENEFITS

- Reduced EMI
- Reduced Power loss and switching transistor
- Reduced snubbing

MECHANICAL DATA

- Case: ABS/LBF
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 88mg / 0.0031oz

Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	WRABS10J	WRABS10K	WRABS10M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	600	800	1000	V
Maximum RMS voltage	V_{RMS}	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	600	800	1000	V
Average Rectified Output Current at T_c=100℃	I_o	1.0			A
Reverse Recovery Time.IF=0.5A,IR=1A,IRR=0.25A	Trr	10			uS
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load(JEDEC method)	I_{FSM}	30			A
Maximum Forward Voltage at 0.5 A	V_F	1.0			V
Maximum DC Reverse Current @T_A=25℃ at Rated DC Blocking Voltage @T_A=125℃	I_R	5 100			uA
Typical Junction Capacitance (Note1)	C_j	40			pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175			°C

Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad.

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Fig.1 Average Rectified Output Current Derating Curve

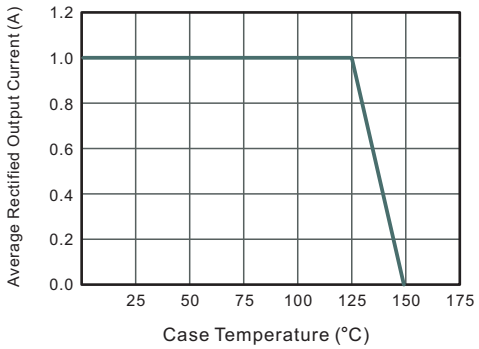


Fig.2 Typical Reverse Characteristics

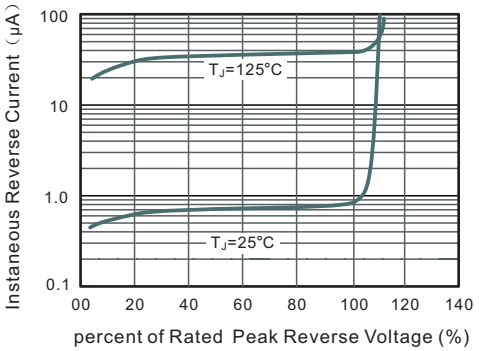


Fig.3 Typical Instaneous Forward Characteristics

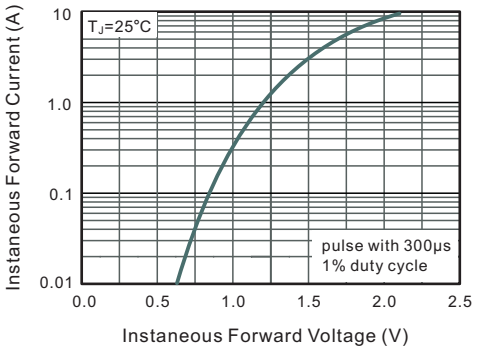


Fig.4 Typical Junction Capacitance

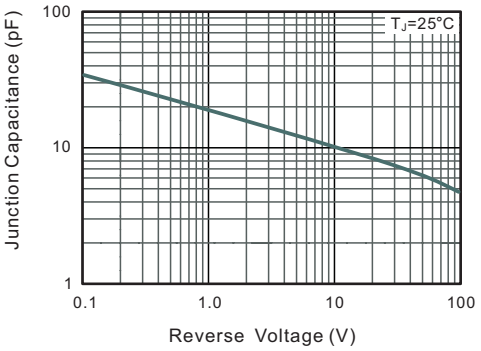
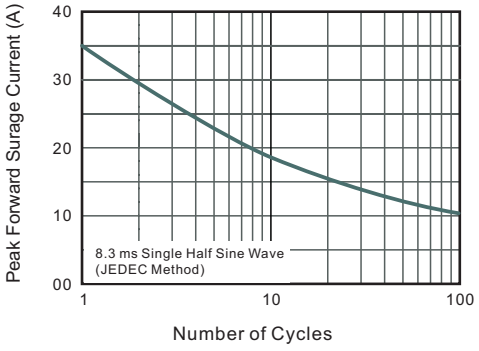


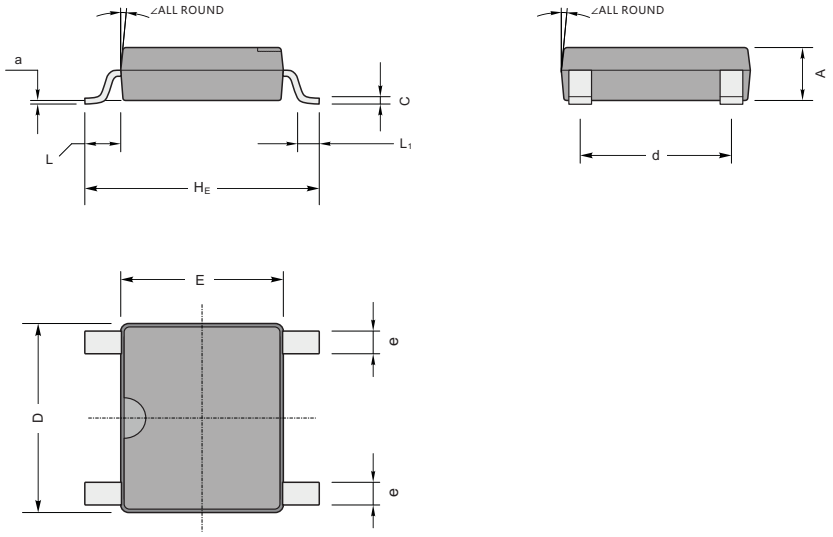
Fig.5 Maximum Non-Repetitive Peak Forward Surage Current



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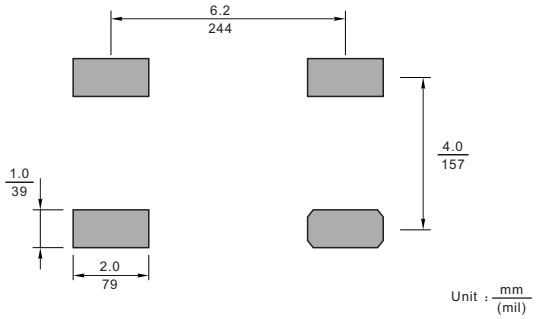
Package Outline ABS/LBF

Plastic surface mounted package; 4 leads



UNIT		A	C	D	E	H_E	d	e	L	L_1	a	∠
mm	max	1.5	0.22	5.2	4.5	6.4	4.2	0.7	0.95	0.6	0.2	7°
	min	1.3	0.15	4.9	4.2	6.0	3.8	0.5				
mil	max	59	8.7	205	177	252	165	28	37	24	8	
	min	51	5.9	193	166	236	150	20				

The recommended mounting pad size



Summary of Packing Options

Package	Packing Description	Packing Quantity	Industry Standard
ABS/LBF	Tape/Reel,13"reel	5000	EIA-481-1

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