



ABS20JG THRU ABS20MG

Ultrasoft Recovery Bridge



ABS Package

PINNING

PIN	DESCRIPTION
1	Input Pin (~)
2	Input Pin (~)
3	Output Anode (+)
4	Output Cathode (-)

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	ABS20JG	ABS20KG	ABS20MG	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	I_O	2.0			A
Reverse Recovery Time. $I_F=0.5A, I_R=1A, I_{RR}=0.25A$	T_{rr}	15			us
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	70			A
$I^2 t$ rating for fusing (1ms < t < 10ms)	$I^2 t$	24.5			A ² S
Maximum Forward Voltage at 1.0 A	V_F	1.0			V
Maximum DC Reverse Current @ $T_A=25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125\text{ }^\circ\text{C}$	I_R	5 100			μA
Typical Junction Capacitance (Note1)	C_j	40			pF
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +175			$^\circ\text{C}$

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.

Features

- Ultrasoft recovery
- low I_{RRM}
- low VF
- High V_{RRM}
- Special frame design for heat dissipation

Benefits

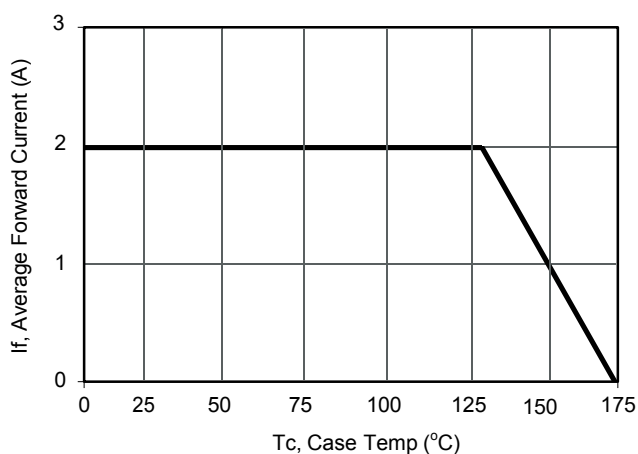
- Reduced EMI
- Reduced power loss and switching transistor
- Reduced snubbing



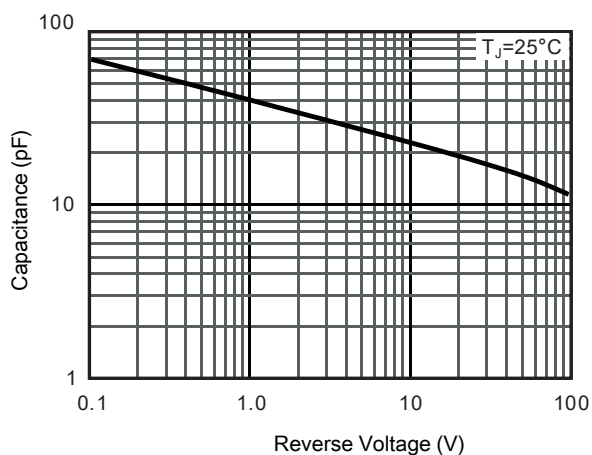
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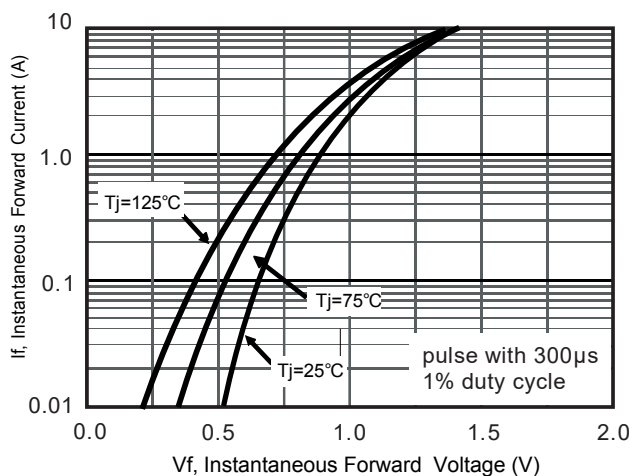
Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)



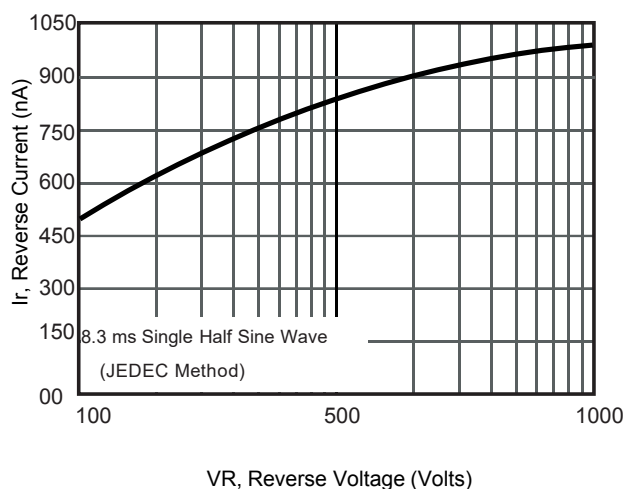
Current Derating, Case



Typical Junction Capacitance



Typical Forward Voltage



Typical Reverse Current





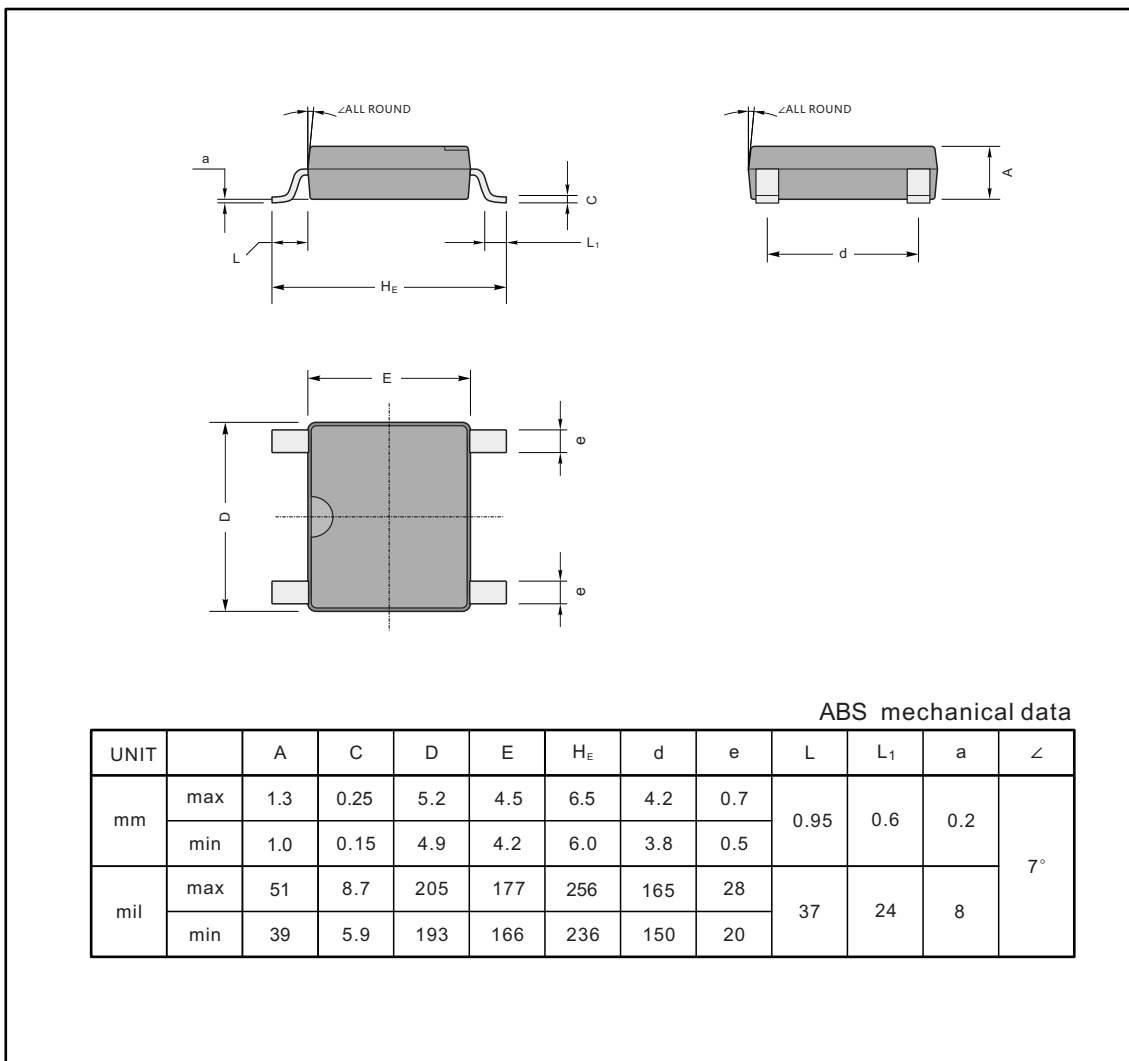
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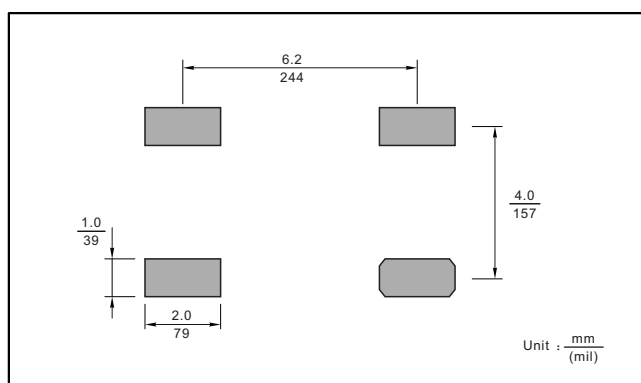
PACKAGE OUTLINE

Plastic surface mounted package; 4 leads

ABS



The recommended mounting pad size



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