



ABS10(LS)

GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER

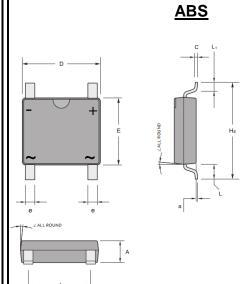
REVERSE VOLTAGE - 1000 Volts FORWARD CURRENT - 1 Ampere

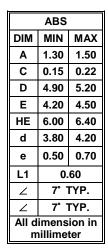
FEATURES

- Glass Passivated Chip Junction
- Reverse Voltage 1000V
- Forward Current 1A
- High Surge Current Capability
- Designed for Surface Mount Application
- UL recognized file#E364304
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package Material: ABS
- Package Material: Green molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.)
- Terminals: Solderable per MIL-STD-750, Method 2026
- Weight: 88 mg (Approximate)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	1000	V
Maximum DC blocking voltage	V _{DC}	1000	V
Average rectified output current per device	I _(AV)	1	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load @ T _A =25°C	I _{FSM}	30	Α
I ² t rating for fusing (t = 8.3ms)	l²t	3.75	A ² S
Operating and storage temperature range	T _J ,T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	VALUE	UNIT
Forward voltage	$I_F = 1A$ $T_A = 25$ °C	V_{F}	1.1	V
Leakage current	$V_R = 1000V$ $T_A = 25^{\circ}C$ $T_A = 125^{\circ}C$	I _R	1 500	uA
Typical junction capacitance (Note	· 4)	CJ	13	pF

THERMAL CHARACTERISTICS

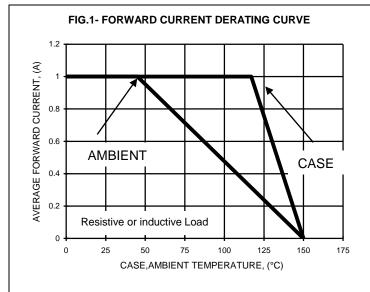
PARAMETER	SYMBOL	TYP.	UNIT
Typical thermal resistance (Note 5)	RthJ _C RthJ _A	20 80	°C/W

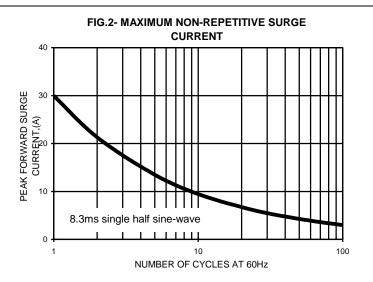
Notes:

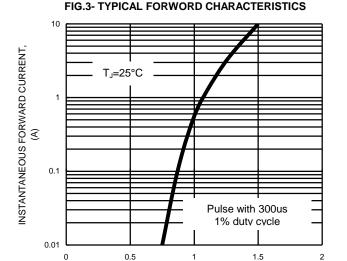
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- Thermal resistance junction to case, lead and ambient in accordance with JESD-51.
 Unit mounted on glass-epoxy PC board with 1.3mm₂ copper pad.



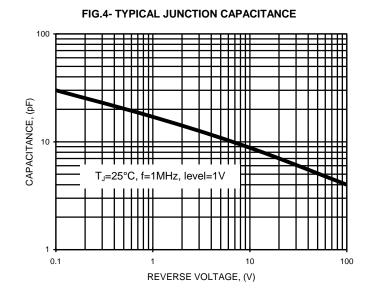
RATING AND CHARACTERISTIC CURVES ABS10

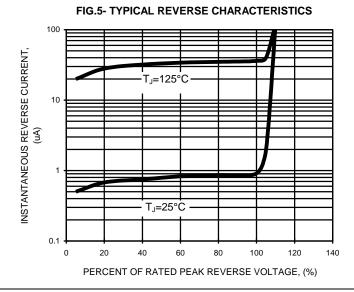






INSTANTANEOUS FORWARD VOLTAGE, (V)



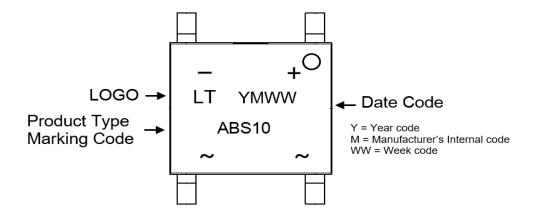




Ordering Information:

Part Number	Pookogo	Packing	
Part Number	Package	Qty.	Carrier
ABS10_HF	ABS	5000	Tape & Reel

Marking Information:



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