

Green Products

HD860 ULTRAFAST RECTIFIER

Features:

- Utra-Fast Switching
- High Current Capability
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

Case: Molded Plastic

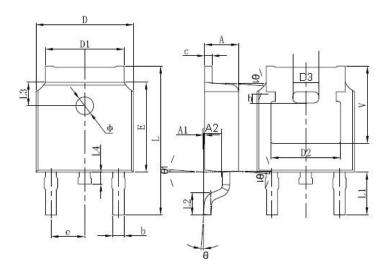
• Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208

• Weight: 0.39 grams (approx.)

Marking: Type Number

• Mounting Position: Any

Mechanical Dimensions: In mm /Inches



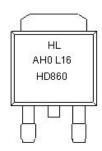
Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
Α	2.200	2.380	0.087	0.094
A10.000	0.000	0.100	0.000	0.004
b	0.710	0.810	0.028	0.032
С	0.460	0.560	0.018	0.022
D	6.500	6.700	0.256	0.264
D1	5.130	5.460	0.202	0.215
D2	4.830	REF.	0.190 REF.	
E	6.000	6.200	0.236	0.244
е	2.186	2.386	0.086	0.094
L	9.800	10.400	0.386	0.409
L1	2.900 REF.		0.114 REF.	
L2	1.400	1.700	0.055	0.067
L3	1.600	REF.	0.063 REF.	
L4	0.600	1.000	0.024	0.039
Φ	1.100	1.300	0.043	0.051
θ	0°	8°	0°	8°
A2	0.910	1.110	0.036	0.044
V	5.350	5.350 REF. 0.211 REF.		REF.
D3	1.778REF.		0.070REF.	
h	0.762REF.		0.030REF.	
θ1	7°		7°	

DPAK

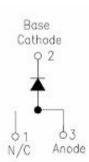
MARKING, MOLDING RESIN

Marking for HD860, 1st row HL, 2nd row AH0 LXX, 3rd row HD860 Where XX is Determined by customer

- China Germany Korea Singapore United States
 - http://www.smc-diodes.com
 sales@ smc-diodes.com









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Ordering Information:

Device	Package	Shipping	
HD860	DPAK	2500pcs / reel	
110000	(Pb-Free)	2500pcs / Teel	

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	HD860	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	420	V
Average Rectified Output Current @T _A =100°C	lo	8.0	Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	110	А
Forward Voltage (per element) @I _F = 8.0A, T _J =25°C	V _{FM}	1.7	V
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	I _{RM}	5.0 50	μA
Maximum Reverse Recovery Time (Note 1)	Trr	50	ns
Max. Voltage Rate of Change	dv/dt	10,000	V/µs
Typical Thermal Resistance Junction to Ambient (Note 2)	R _{θJA}	25	K/W
Storage Temperature Range	T _{STG,} T _J	-55 to +150	°C
Case Style	DPAK		

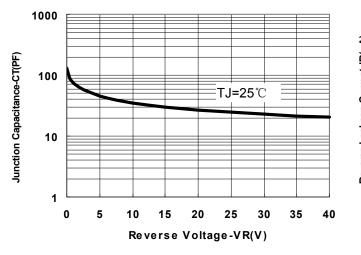
Note:

- 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 2. Mount on Cu-Pad Size 16mm×16mm on P.C.B.

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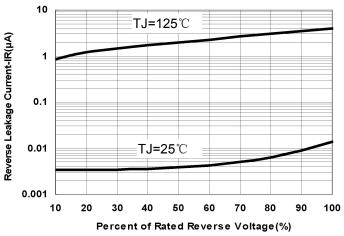


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

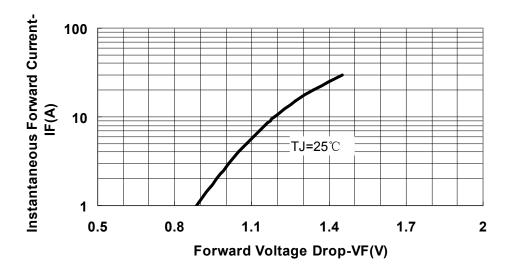


Fig.3-Typical Forward Voltage Drop Characteristics

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