

Technical Data Data Sheet N0249, Rev. - Green Products

HD860 ULTRAFAST PLASTIC 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:

D

Case: Molded Plastic

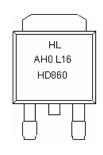
• Terminals: Plated Leads, Solderable per MIL-STD-202, Method 208

Weight: 0.39 grams (approx.)

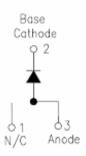
Marking: Type Number

• Mounting Position: Any

Mechanical Dimensions: In mm /Inches







	D1	c A	
T3			g) D3
	114	A1 A2	D2
		7	2/1 4 (1)
	е	b	

Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	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	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 REF.		0.211 REF.		
D3	D3 1.778REF.		0.070REF.		
h 0.762REF.		0.030REF.			
0 1	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

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Ordering Information:

Device	Package	Shipping
HD860	DPAK	2500pes / real
Прооб	(Pb-Free)	2500pcs / reel

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 @T_A=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)	I _{FSM}	110	Α
Forward Voltage (per element) @I _F = 8.0A, T _J =25°C	V_{FM}	1.7	V
Peak Reverse Current	I _{RM}	5.0 50	μΑ
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)	$R_{ heta JA}$	25	K/W
Storage Temperature Range	T_{STG} , T_{J}	-55 to +150	°C
Case Style	DPAK		

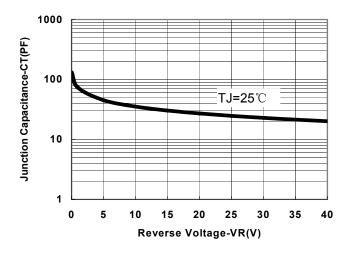
Note:

- 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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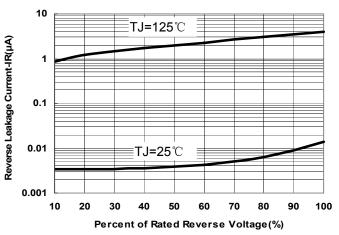


Fig.1-Typical Junction Capacitance

Fig.2-Typical Reverse Characteristics

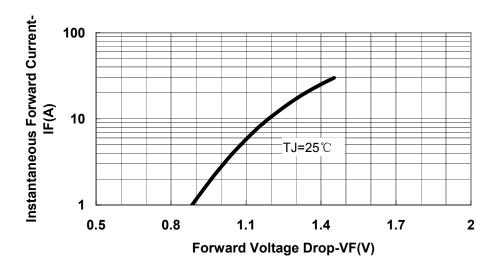


Fig.3-Typical Forward Voltage Drop Characteristics

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