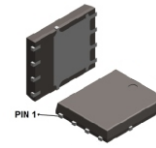


ACDBH8-3060-HF

RoHS Device
Halogen Free



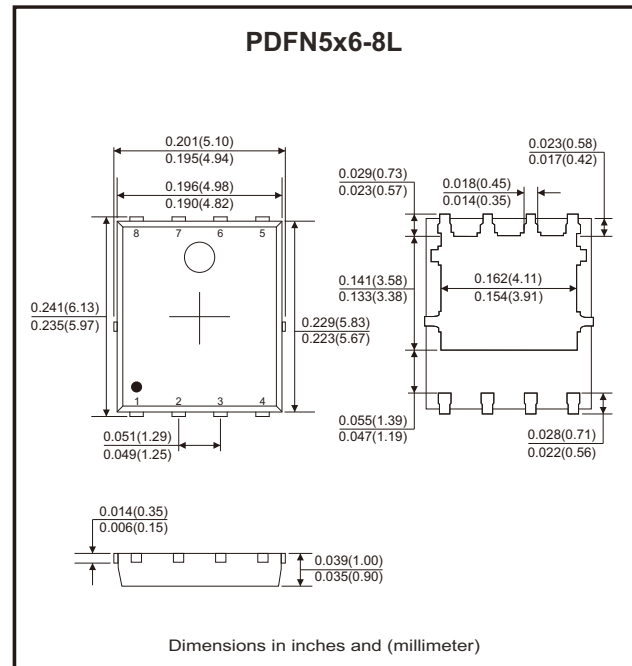
Features

- Very low conduction losses.
- Low forward voltage drop.
- Low thermal resistance
- High specified avalanche capability.
- AEC-Q101 Qualified.

Mechanical data

- Case: PDFN5x6-8L, molded plastic.
- Epoxy: UL flammability classification rating 94V-0.
- Terminals: Tin-plated, solderability per MIL-STD-202, method 208.

Circuit Diagram



Maximum Ratings (at T_A=25°C, unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V _{RRM}	60	V
Working peak reverse voltage	V _{RWM}	60	V
DC blocking voltage	V _R	60	V
Continuous forward current	I _F	30	A
Peak forward surge current, 8.3ms single half sine-wave	I _{FSM}	200	A
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (at T_J=25°C, unless otherwise noted)

Parameter	Conditions	Symbol	Min.	Typ.	Max.	Unit
Reverse breakdown voltage	I _R = 100μA	V _{BR}	60			V
Forward voltage	I _F = 30A, T _J = 25°C	V _F			0.75	V
	I _F = 30A, T _J = 125°C				0.68	V
Maximum peak reverse current	V _R = V _{RRM} , T _J = 25°C	I _R			0.1	mA
	V _R = V _{RRM} , T _J = 125°C				50	mA

Rating and Characteristics Curves (ACDBH8-3060-HF)

Fig.1 - Typical Reverse Characteristic

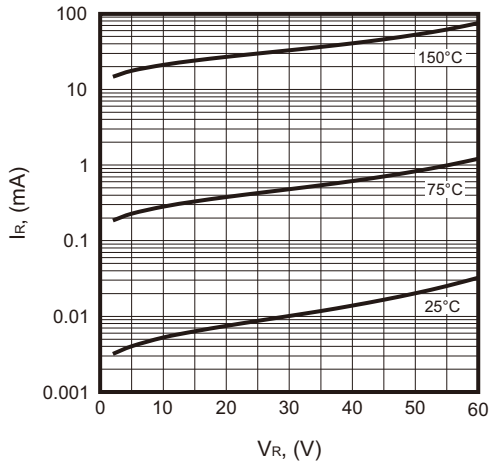


Fig.2 - Typical Forward Characteristic

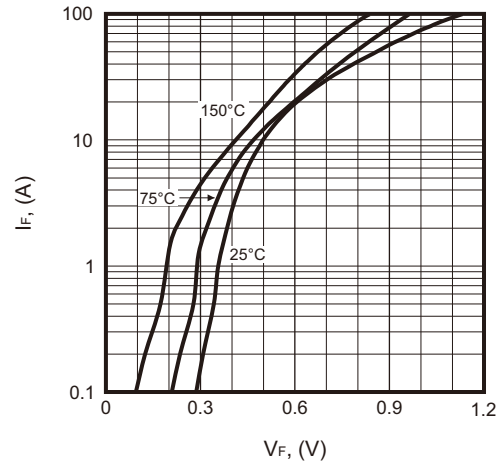
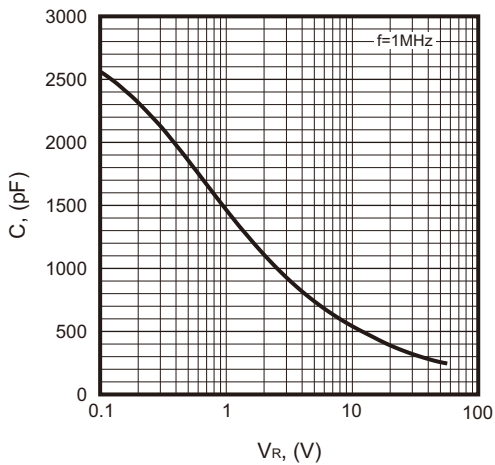
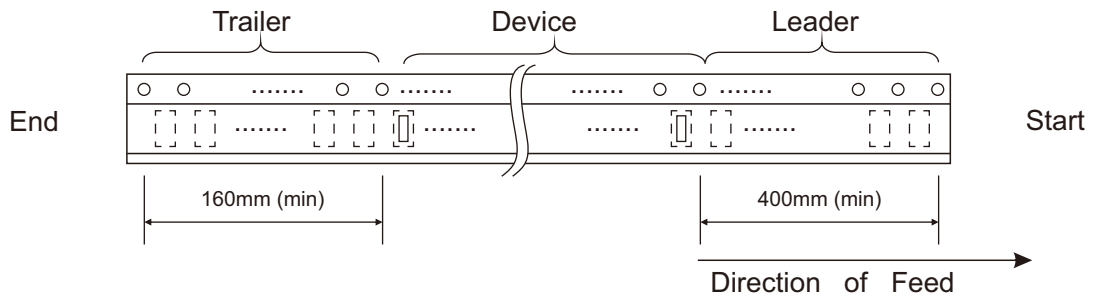
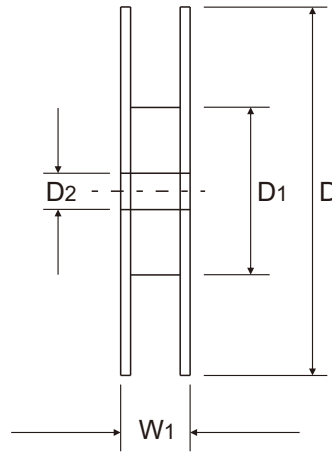
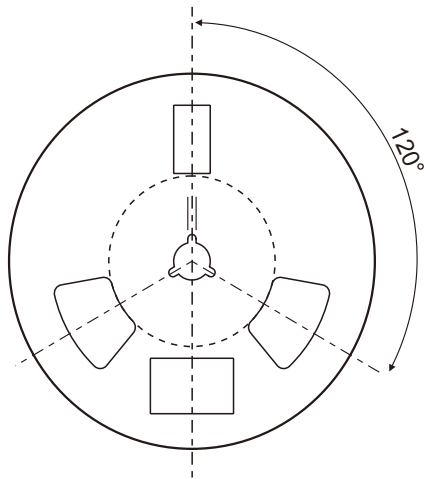
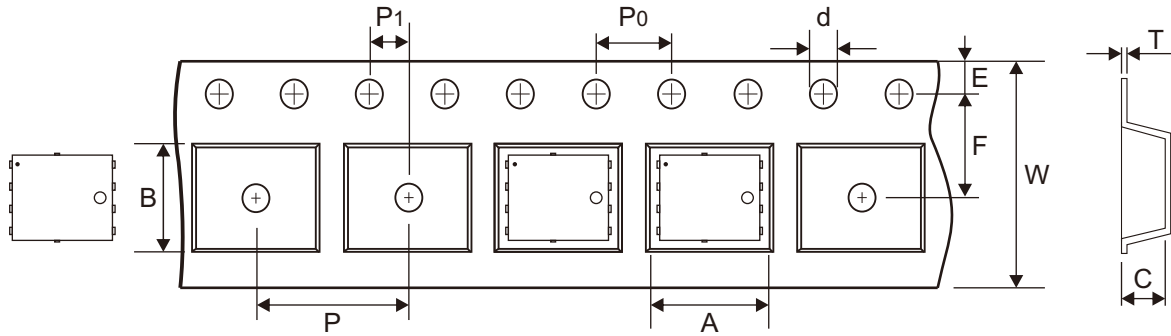


Fig.3 - Capacitance vs. Reverse Voltage



Reel Taping Specification

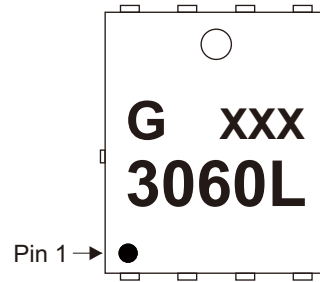


PDFN5x6 -8L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	6.30 ± 0.10	5.30 ± 0.10	1.20 ± 0.10	1.55 + 0.01	330 ± 1.00	100 ± 1.00	13.00 ± 0.20
	(inch)	0.248 ± 0.004	0.209 ± 0.004	0.047 ± 0.004	0.061 + 0.0004	12.992 ± 0.039	3.937 ± 0.039	0.512 ± 0.008

PDFN5x6 -8L	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.10	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.05	0.25 ± 0.03	12.00 + 0.30 - 0.10	17.80 ± 0.30
	(inch)	0.069 ± 0.004	0.217 ± 0.004	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.002	0.010 ± 0.001	0.472 + 0.012 - 0.004	0.701 ± 0.012

Marking Code

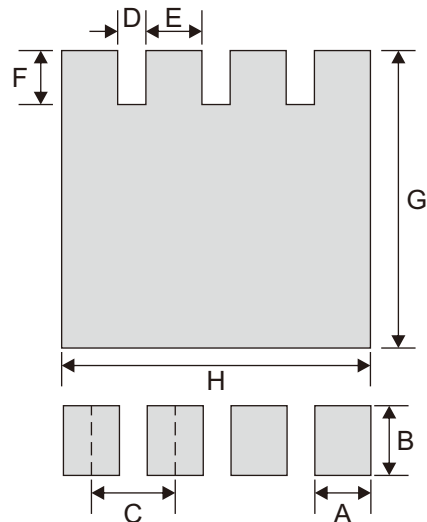
Part Number	Marking Code
ACDBH8-3060-HF	3060L



XXX = Control code

Suggested P.C.B. PAD Layout

SIZE	PDFN5x6-8L	
	(mm)	(inch)
A	0.80	0.031
B	1.00	0.039
C	1.27	0.050
D	0.47	0.019
E	0.80	0.031
F	0.85	0.033
G	4.50	0.177
H	4.60	0.181



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
PDFN5x6-8L	5,000	13