

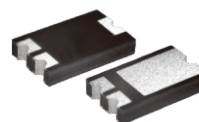
CDBZ3860L-HF

Reverse Voltage: 60 Volts

Forward Current: 8.0 Amp

RoHS Device

Halogen free



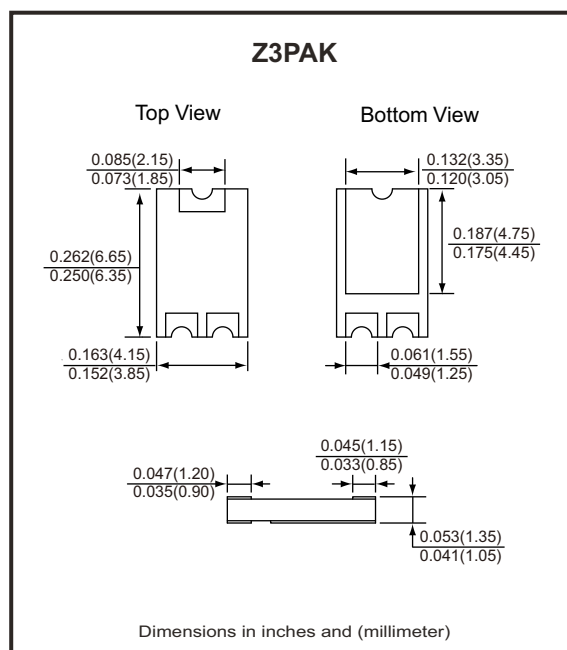
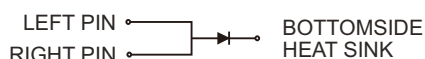
Features

- Lead less chip form, no lead damage.
- Low power loss, High efficiency.
- High current capability, low VF.
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0 .

Mechanical data

- Case: Packed with FRP substrate and epoxy underfilled.
- Terminals: Pure Tin plated (Lead-Free), solderable per MIL-STD-750, method 2026.

Circuit Diagram



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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	60	V
Average forward current	I _{F(AV)}	8	A
Peak forward surge current (8.3ms single half sine-wave)	I _{FSM}	220	A
Operating and storage temperature range	T _J , T _{STG}	-55 to +150	°C

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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage (NOTE 1)	V _F	@ I _F = 8 A T _J = 25°C T _J = 125°C		0.45 -	0.53 0.50	V
Repetitive peak reverse current	I _{RRM}	@ V _R = Max. V _{RRM} T _J = 25°C T _J = 125°C		0.12 -	0.6 100	mA
Thermal resistance	R _{θJA}	Junction to ambient (NOTE 2)		123.5		°C/W
	R _{θJC}	Junction to case (NOTE 2)		20.2		°C/W

NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.

(2) Mounted on P.C.B. with 3.36 x 4.86mm & 1.39 x 1.4mm copper pad areas.

Company reserves the right to improve product design , functions and reliability without notice.

REV:B

RATING AND CHARACTERISTIC CURVES (CDBZ3860L-HF)

Fig.1 - Forward Current Derating Curve

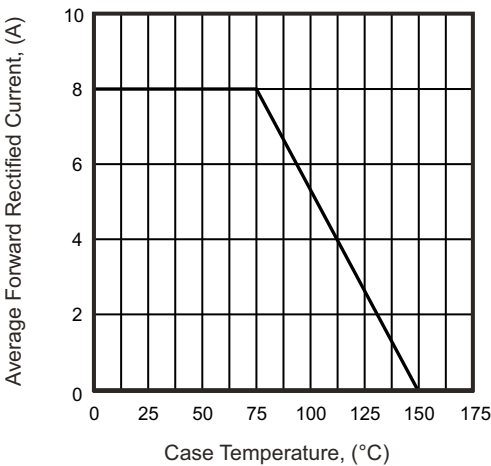


Fig.2 - Typical Instantaneous Forward Characteristics

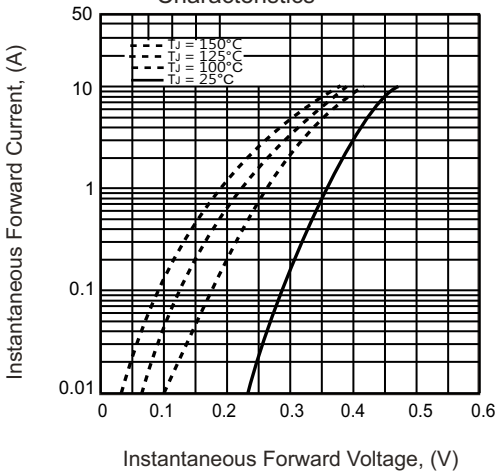


Fig.3 - Max. Non-Repetitive Peak Forward Surge Current

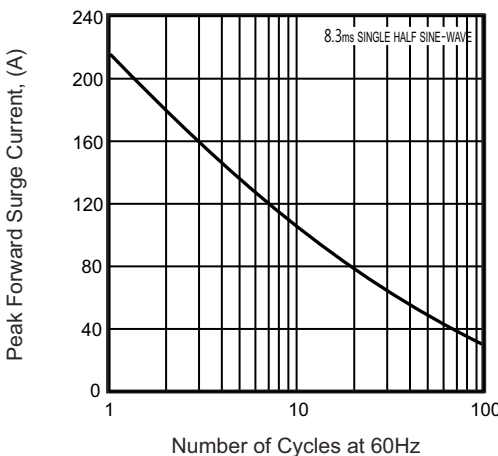
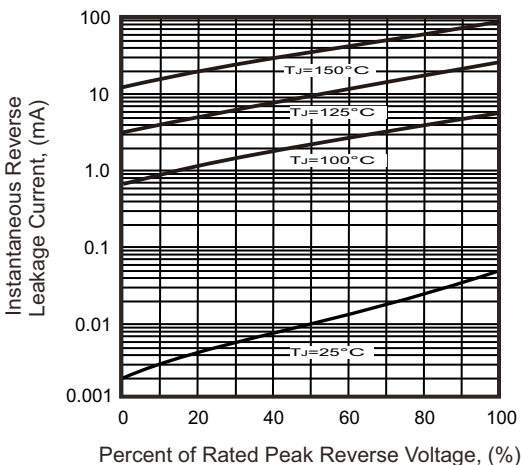
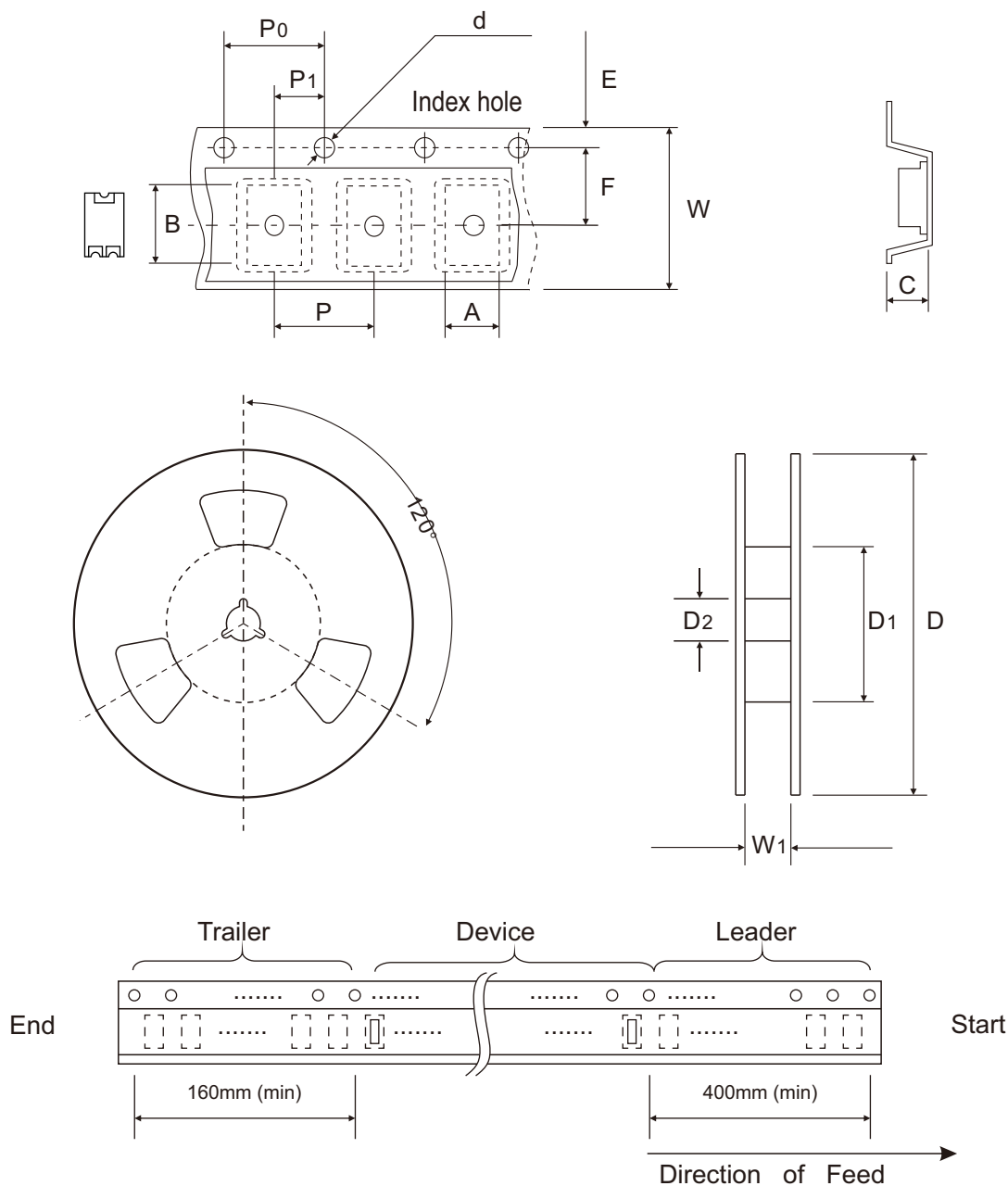


Fig.4 - Typical Reverse Characteristics



Reel Taping Specification



Z3PAK	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	4.25 ± 0.10	6.80 ± 0.10	1.45 ± 0.10	1.50 ± 0.10	330 ± 2.00	50.00 MIN.	13.00 ± 0.50
	(inch)	0.167 ± 0.004	0.268 ± 0.004	0.057 ± 0.004	0.059 ± 0.004	12.992 ± 0.079	1.969 MIN.	0.512 ± 0.020

Z3PAK	SYMBOL	E	F	P	P0	P1	W	W1
	(mm)	1.75 ± 0.10	5.50 ± 0.05	8.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	12.00 ± 0.30	14.40 MAX.
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.315 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.472 ± 0.012	0.567 MAX.

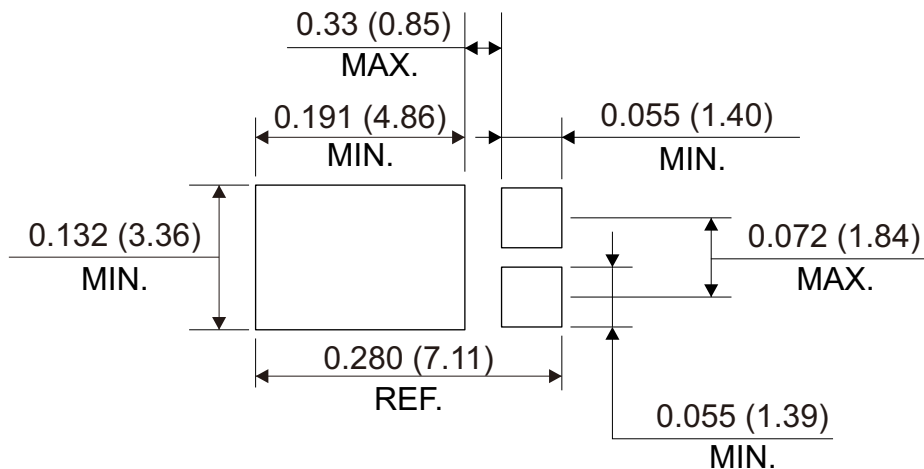
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Marking Code



Suggested PAD Layout



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
Z3PAK	5,000	13