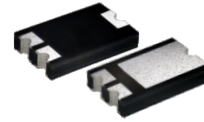


CDBZ310200H-HF

Reverse Voltage: 200 Volts
Forward Current: 10 Amp
RoHS Device
Halogen free


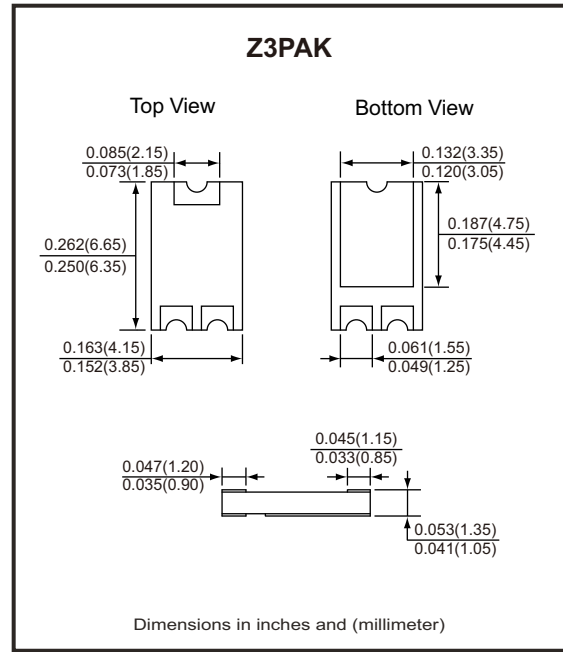
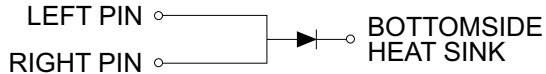
Features

- 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.
- Weight: 0.08 grams (approx).

Circuit Diagram



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

Parameter	Symbol	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}	200	V
Average forward current	I _{F(AV)}	10	A
Peak forward surge current (8.3ms single half sine-wave)	I _{FSM}	250	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 = 10 A	-	0.79	0.82	V
Repetitive peak reverse current	I _{RRM}	V _R = Max. V _{RRM} T _A = 25°C T _A = 125°C	-	0.02 -	0.10 50	mA
Thermal resistance	R _{θJA}	Junction to ambient (NOTE 2)	-	60	-	°C/W
	R _{θJL}	Junction to lead (NOTE 2)	-	22	-	°C/W
	R _{θJC}	Junction to case (NOTE 2)	-	20	-	°C/W

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

(2) Mounted on P.C.B. with 14 x 14mm copper pad areas.

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

REV:B

RATING AND CHARACTERISTIC CURVES (CDBZ310200H-HF)

Fig.1- Forward Current Derating Curve

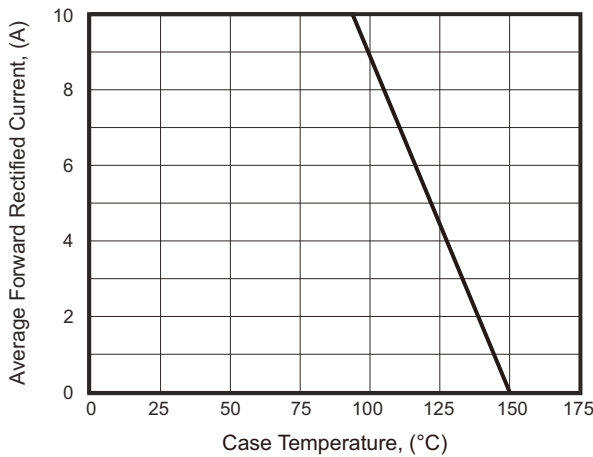


Fig.2- Maximum Non-Repetitive Peak Forward Surge Current

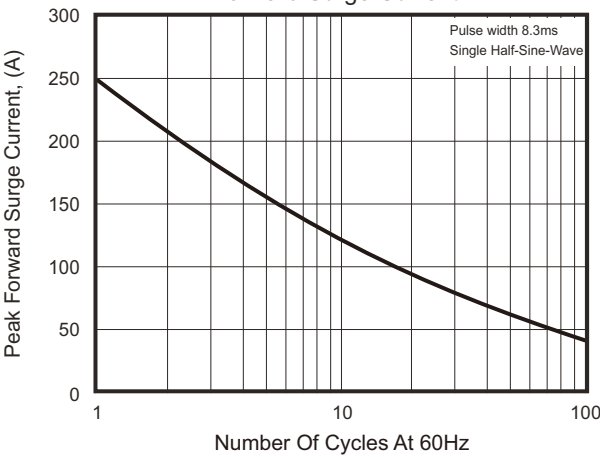


Fig.3- Typical Instantaneous Forward Characteristics

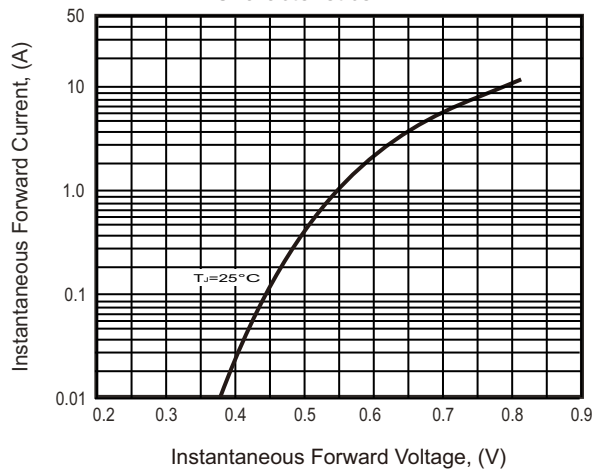
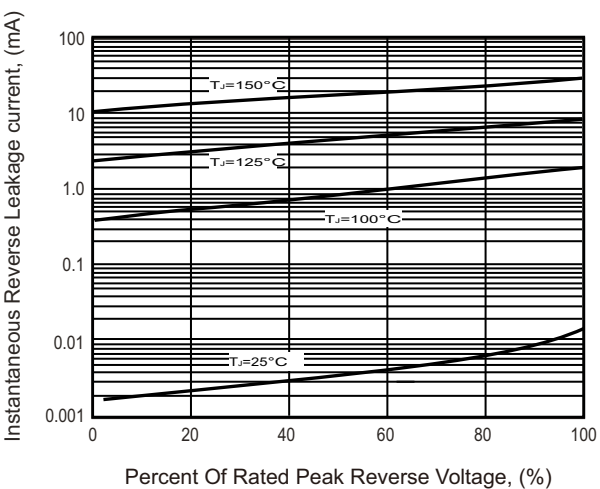
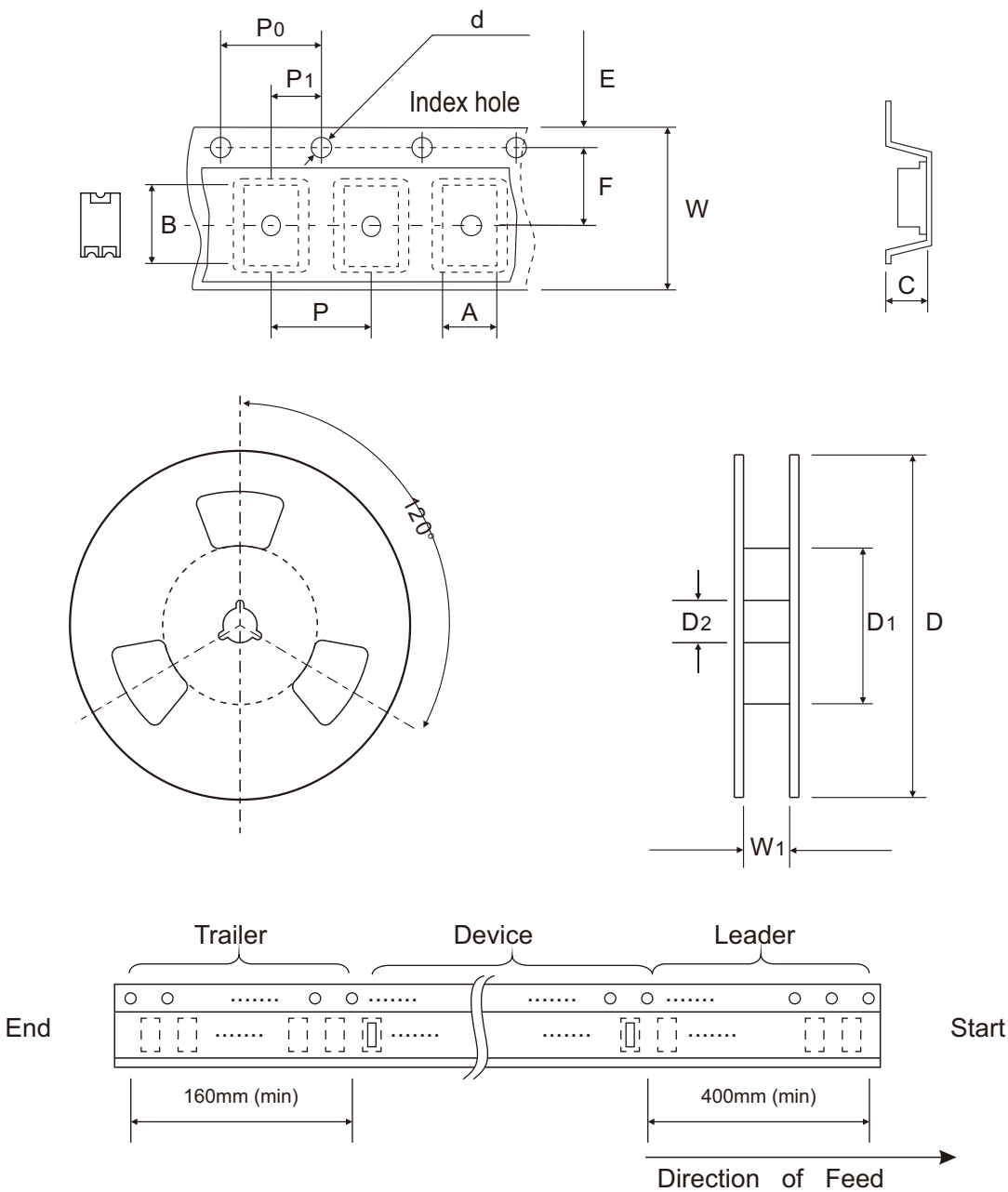


Fig.4- Typical Reverse Characteristics



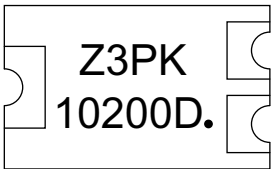
Reel Taping Specification



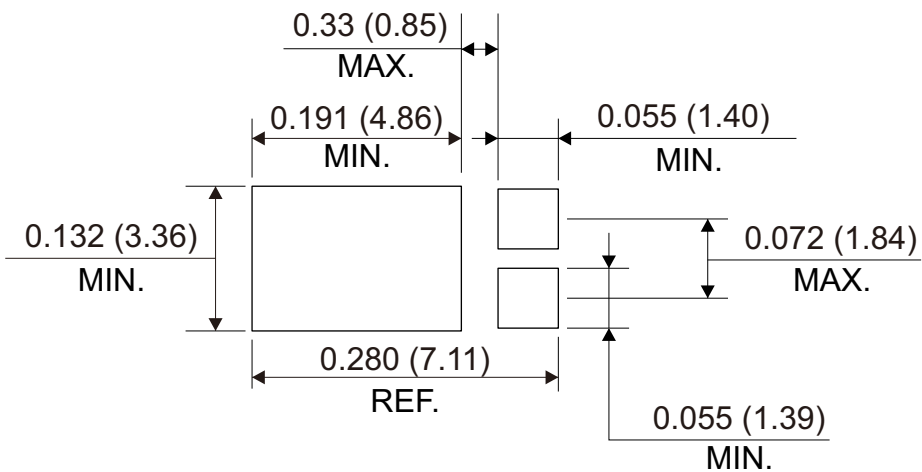
Z3PAK	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	4.25 ± 0.10	6.80 ± 0.10	1.45 ± 0.10	1.50 ± 0.10	330 ± 2.00	50.00 MIN.	13.00 ± 0.50
	(inch)	0.167 ± 0.004	0.268 ± 0.004	0.057 ± 0.004	0.059 ± 0.004	12.992 ± 0.079	1.969 MIN.	0.512 ± 0.020

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.

Marking Code



Suggested PAD Layout



Standard Packaging

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