

CDBD2020-G Thru. CDBD20200-G

Reverse Voltage: 20 to 200 Volts

Forward Current: 20.0 Amp

RoHS Device

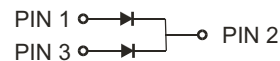
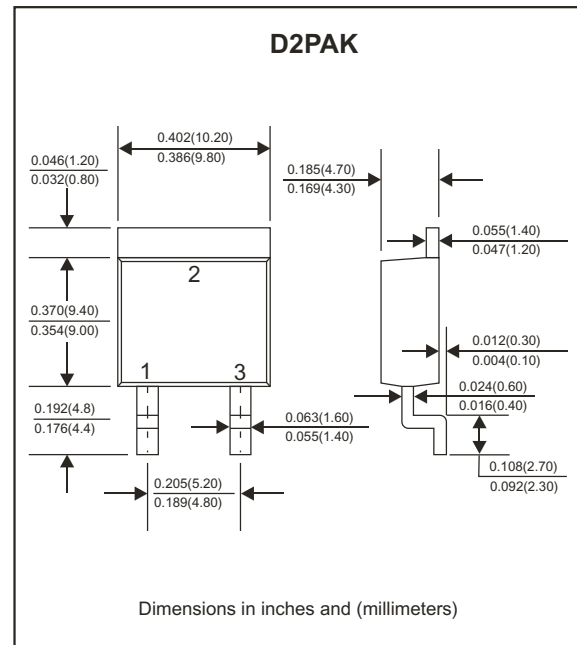


Features

- Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guardring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

Mechanical data

- Case: TO-263/D2PAK, molded plastic.
- Terminals: solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Weunting Position: Any
- Weight: 1.46 gram(approx.).



Maximum Ratings (At Ta=25°C, unless otherwise noted)

Parameter		Symbol	CDBD 2020-G	CDBD 2030-G	CDBD 2040-G	CDBD 2045-G	CDBD 2050-G	CDBD 2060-G	CDBD 2080-G	CDBD 20100-G	CDBD 20150-G	CDBD 20200-G	Unit
Repetitive peak reverse voltage		V _{RRM}	20	30	40	45	50	60	80	100	150	200	V
Continuous reverse voltage		V _R	20	30	40	45	50	60	80	100	150	200	V
RMS voltage		V _{RMS}	14	21	28	31.5	35	42	56	70	105	140	V
Maximum Forward rectified current (See fig. 1)		I _O	20.0										A
Maximum forward voltage I _F =10.0A		V _F	0.55				0.75		0.85		1.00		V
Maxium Forward surge current, 8.3ms singlehalf sine-wave superimposed on rate load (JEDEC method)		I _{FSM}	150										A
MaximumReverse current	V _R =V _{RRM} T _A =25°C	I _R	0.5										mA
	V _R =V _{RRM} T _A =100°C	I _R	50										mA
Typ.Thermal resistance	Junction to Case	R _{θJc}	2.0										°C/W
Operating temperature		T _J	-55 to +125				-55 to +150						°C
Storage temperature		T _{STG}	-65 to +175										°C

RATING AND CHARACTERISTIC CURVES (CDBD2020-G Thru. CDBD20200-G)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

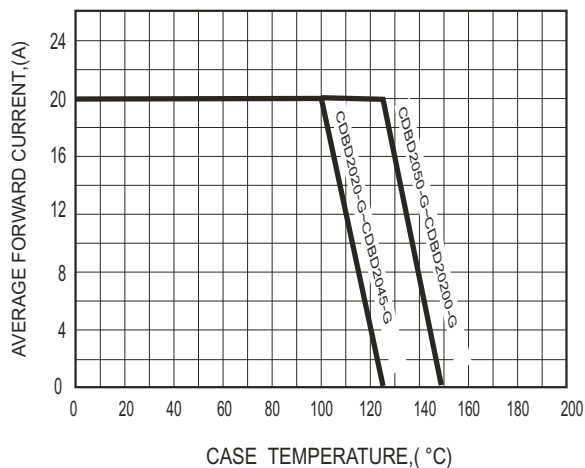


FIG.2-TYPICAL FORWARD CHARACTERISTICS

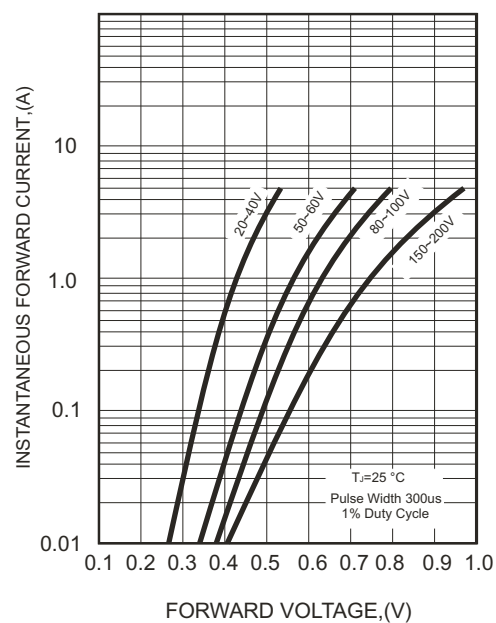


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

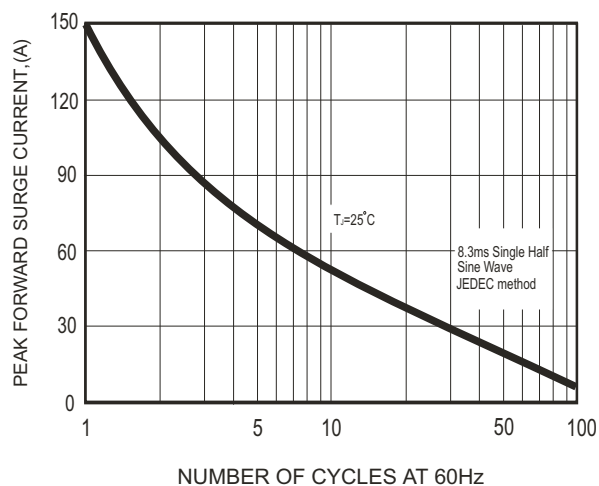
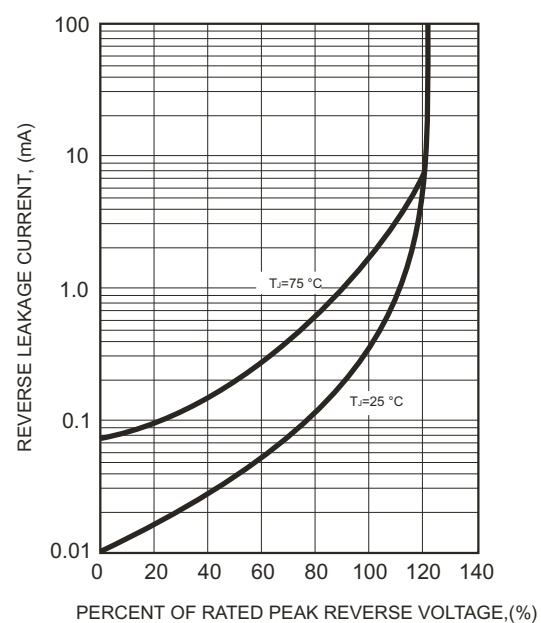
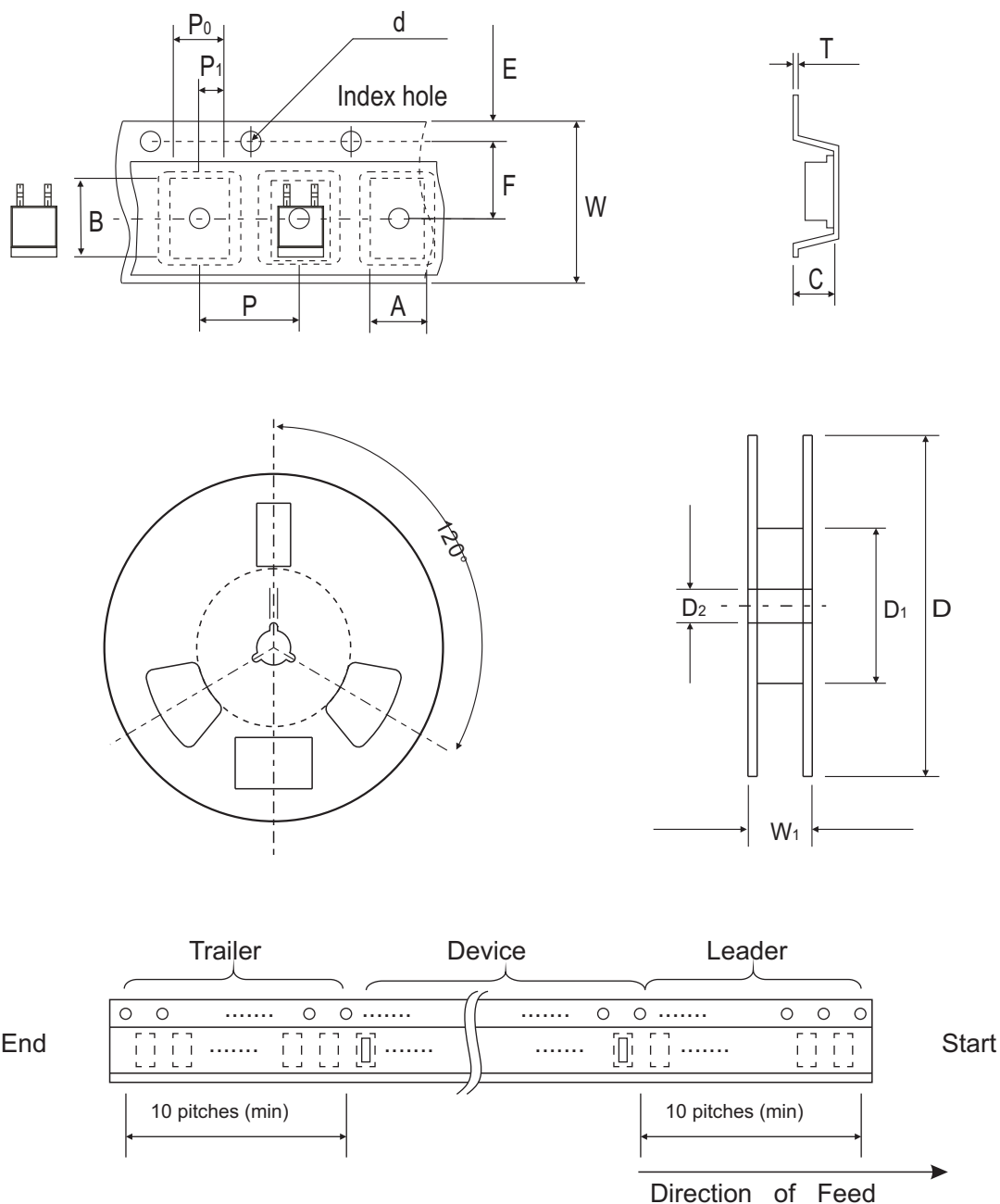


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



Reel Taping Specification

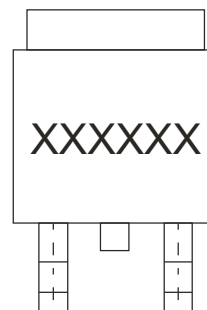


TO-263/D2PAK	SYMBOL	A	B	C	d	D	D ₁	D ₂
	(mm)	10.70 ± 0.10	16.30 ± 0.10	5.10 ± 0.10	1.50 ± 0.10	330.00 ± 2.00	50.0 MIN.	13.0 ± 0.50
	(inch)	0.421 ± 0.004	0.642 ± 0.004	0.201 ± 0.004	0.059 ± 0.004	13.00 ± 0.079	1.969 MIN.	0.512 ± 0.020

TO-263/D2PAK	SYMBOL	E	F	P	P ₀	P ₁	T	W	W ₁
	(mm)	1.75 ± 0.10	11.50 ± 0.10	16.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.23 ± 0.10	24.00 ± 0.30	30.00 ± 1.0
	(inch)	0.069 ± 0.004	0.453 ± 0.004	0.630 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.009 ± 0.004	0.945 ± 0.012	1.181 ± 0.039

Marking Code

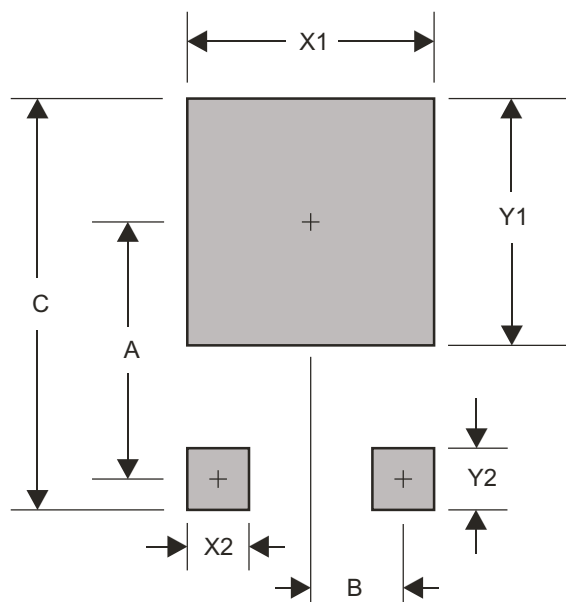
Part Number	Marking Code
CDBD2020-G	SK2020
CDBD2030-G	SK2030
CDBD2040-G	SK2040
CDBD2045-G	SK2045
CDBD2050-G	SK2050
CDBD2060-G	SK2060
CDBD2080-G	SK2080
CDBD20100-G	SK20100
CDBD20150-G	SK20150
CDBD20200-G	SK20200



XXXXXXX / XXXXXXXX = Product type marking code

Suggested PAD Layout

SIZE	TO-263 / D2PAK	
	(mm)	(inch)
A	9.50	0.374
B	2.50	0.098
C	16.90	0.665
X1	10.80	0.425
X2	1.10	0.043
Y1	11.40	0.449
Y2	3.50	0.138



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
TO-263/D2PAK	800	13

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com