

JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD.

AD-SBDD20150CT Plastic-Encapsulated Diode

AD-SBDD20150CT Schottky barrier diode

MAIN CHARACTERISTICS

Io	20A (2X10A)
V _{RRM}	150V
Tj	150°C
V _{F(typ)}	0.71V (@ T _j = 125°C)

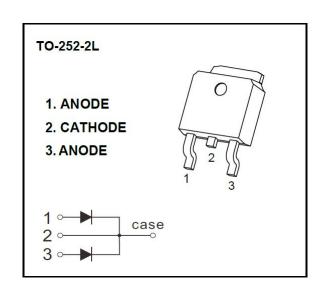
FEATURES

- Low power loss, high efficiency
- Guard ring die construction for transient protection
- High current capability and low forward voltage drop
- AEC-Q101 qualified

MARKING



SBDD20150CT = Device code XXXX = Date code



MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

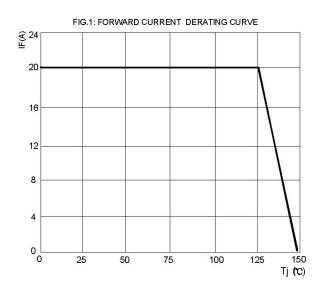
Parameter	Symbol	Value	Unit
Peak repetitive reverse voltage	V _{RRM}		
Working peak reverse voltage	V_{RWM}	150	V
DC blocking voltage	V _R		
RMS reverse voltage	V _{R(RMS)}	105	V
Average rectified output current	Io	20	Α
Non-repetitive peak forward surge current @ t = 8.3ms	IFSM	150	Α
Thermal resistance from junction to case	Rejc	5.0	°C/W
Thermal resistance from junction to ambient	R _{θJA}	100	°C/W
Operating junction temperature range	Tj	150	°C
Storage temperature range	T _{stg}	-55 ~ +150	°C

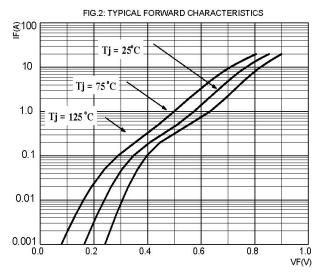
ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

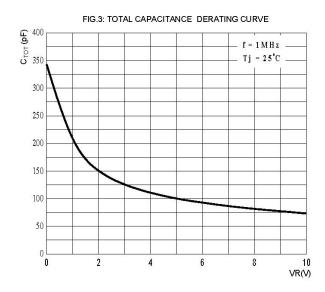
Parameter	Symbol	Test condition		Min	Тур	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	I _R = 0.1mA		150	-	-	V
Reverse voltage leakage current	I _R	V _R = 150V	T _j = 25°C	-	2.0	100	μA
			T _j = 125°C	-	2.0	-	mA
Forward voltage	V _{F1}	I _F = 5A	T _j = 25°C	-	0.76	-	V
			T _j = 125°C	-	0.64	-	
	V _{F2}	I _F = 10A	T _j = 25°C	-	0.83	0.9	\ \ \
			T _j = 125°C	-	0.71	-	

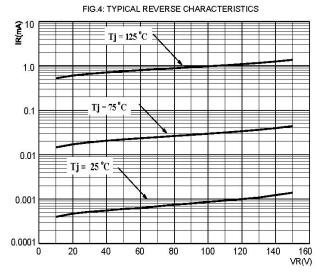
Version 1.0 2 / 6 2021-07-01

TYPICAL CHARACTERISTICS

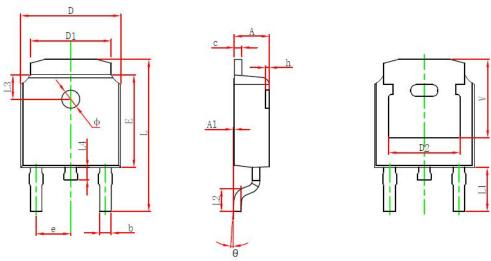






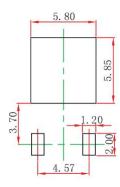


TO-252-2L PACKAGE OUTLINE DIMENSIONS



Complete	Dimensions	In Millimeters	Dimensions In Inches		
Symbol	Min.	Max.	Min.	Max.	
Α	2.200	2.400	0.087	0.094	
A1	0.000	0.127	0.000	0.005	
b	0.635	0.770	0.025	0.030	
С	0.460	0.580	0.018	0.023	
D	6.500	6.700	0.256	0.264	
D1	5.100	5.460	0.201	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	9.712	10.312	0.382	0.406	
L1	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°	
h	0.000	0.300	0.000	0.012	
V	5.250	REF.	0.207	REF.	

TO-252-2L SUGGESTED PAD LAYOUT

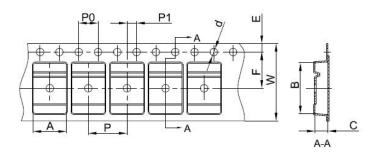


Note:

- 1. Controlling dimension in millimeters.
- 2. General tolerance: ±0.05mm.
- 3. The pad layout is for reference purpose only.

TO-252-2L TAPE AND REEL

TO-252 Embossed Carrier Tape

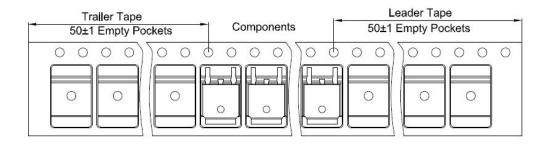


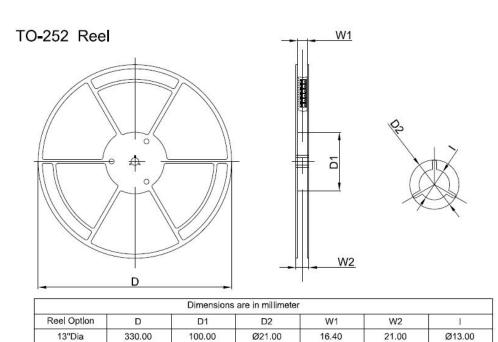
Packaging Description:

TO-252 parts are shipped in tape. The carrier tape is made from a dissipative (carbon filled) polycarbonate resin. The cover tape is a multilayer film (Heat Activated Adhesive in nature) primarily composed of polyester film, adhesive layer, sealant, and anti-static sprayed agent. These reeled parts in standard option are shipped with 25,00 units per 13" or 33.0 cm diameter reel. The reels are clear in color and is made of polystyrene plastic (anti-static coated).

			1	Dimensions a	are in millime	ter				
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
TO-252	6,90	10,50	2.70	Ø1.55	1.75	7,50	4.00	8.00	2.00	16.00

TO-252 Tape Leader and Trailer





REEL	Reel Size	Box	Box Slze(mm)	Carton	Carton Size(mm)	G.W.(kg)
2,500 pcs	13Inch	2,500 pcs	340×336×29	25,000 pcs	353×346×365	

PUBLISHED BY

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