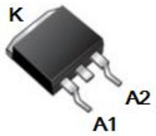
WSB5552TH

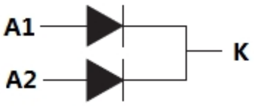
Power Schottky Barrier Rectifier **Http://www.sh-willsemi.com**

Features



TO-263E-2L

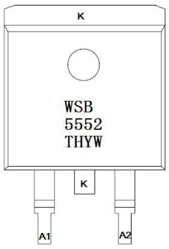
- 2x5A average rectified forward current
- Low forward voltage and Low leakage current
- Excellent high junction temperature stability
- High forward surge capability



Circuit

Applications

- High frequency switch model power supplies
- DC-DC Convertors, Power adapters



Marking

Absolute maximum ratings

Parameter		Symbol	Value	Unit
Reverse voltage (repetitive peak)		V_{RM}	100	V
Reverse voltage (DC)		V_R	100	V
Average rectified forward current	Per diode	I_F	5	A
	Per device	I_F	10	A
Peak Forward Surge Current (1)		I_{FSM}	100	A
Junction temperature		T_J	150	^{0}C
Operating temperature		Topr	-55 ~ 150	^{0}C
Storage temperature		Tstg	-55 ~ 150	^{0}C
Thermal Resistance Ratings				
Maximum Thermal Resistance Junction To case (Per leg)		$R_{\theta JC}$	2.2	°C/W

Order information

Device	Package	Marking	Shipping
WSB5552TH-3/T	TO-263E-2L	WSB5552THYW (2)	800/Reel&Tape

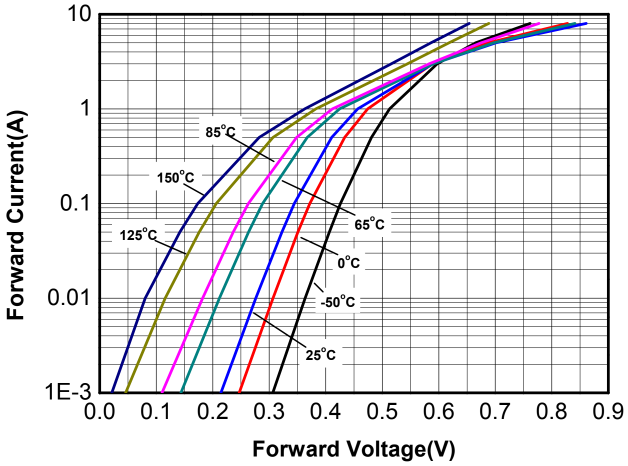
Note 1: Pulse Width=8.3ms，Single Half Sine Pulse

Note 2: WSB5552= Device code;TH=Special Code; Y=Year; W=Week (A~z)

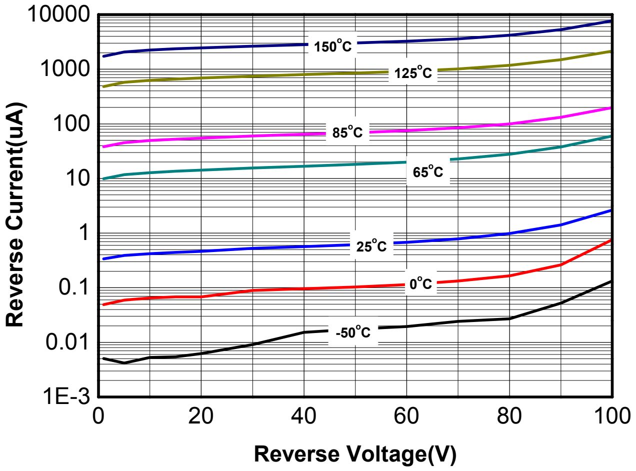
Electronics characteristics (T_A=25°C, Per diode)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V_R	I_R=0.5mA	100	-	-	V
Forward voltage	V_F	I_F=5A	-	-	0.80	V
Reverse current	I_R	V_R=100V	-	-	0.1	mA
Junction capacitance	C_J	V_R=25V, F=1MHz	-	62	-	pF

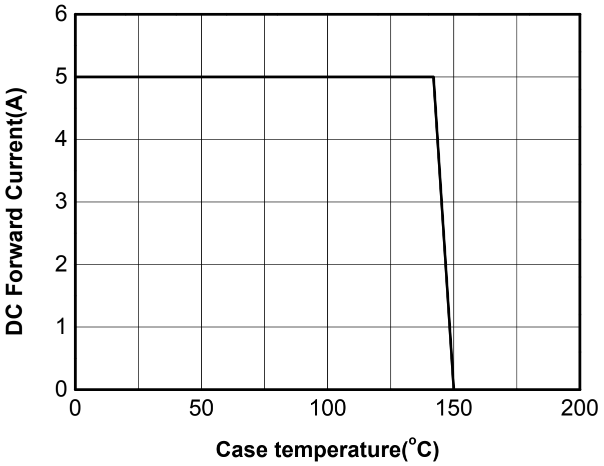
Typical characteristics (Ta=25°C, Per diode)



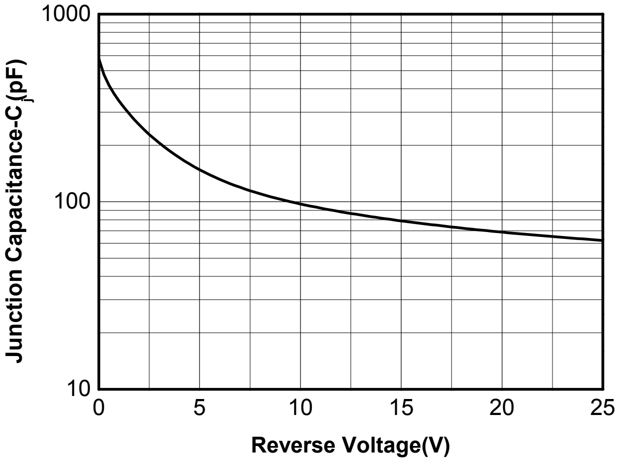
Forward voltage vs. Forward current



Reverse current vs. Reverse voltage



Forward Current Derating Curve



Junction capacitance vs. Reverse voltage

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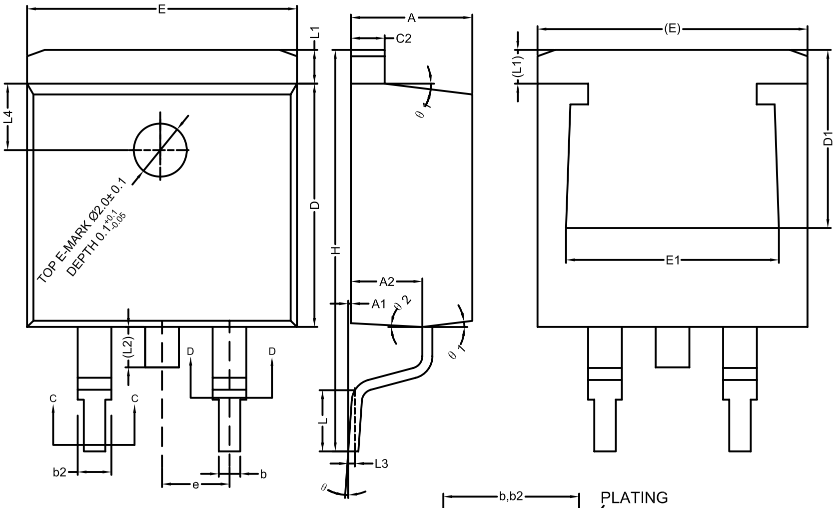
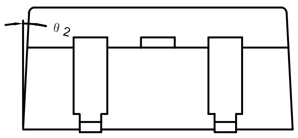
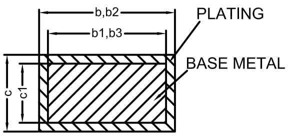


COMMON DIMENSIONS
(UNITS OF MEASURE=MILLIMETER)

SYMBOL	MIN	NOM	MAX
A	4.40	4.57	4.70
A1	0	0.10	0.25
A2	2.59	2.69	2.79
b	0.77	-	0.90
b1	0.76	0.81	0.86
b2	1.23	-	1.36
b3	1.22	1.27	1.32
c	0.34	-	0.47
c1	0.33	0.38	0.43
c2	1.22	-	1.32
D	9.05	9.15	9.25
D1	6.60	-	-
E	10.06	10.16	10.26
E1	7.80	-	8.20
e	2.54BSC		
H	14.70	15.10	15.50
L	2.00	2.30	2.60
L1	1.17	1.27	1.40
L2	-	-	1.75
L3	0.25BSC		
L4	2.00REF		
θ	0°	-	8°
θ 1	5°	7°	9°
θ 2	1°	3°	5°





SECTION C-C & D-D

NOTES:
ALL DIMENSIONS REFER TO JEDEC STANDARD
TO-263 AB DO NOT INCLUDE MOLD FLASH
OR PROTRUSIONS.