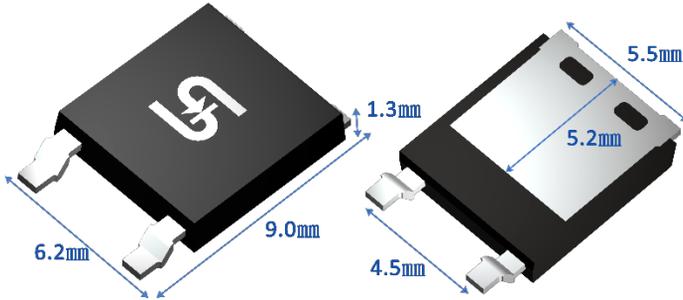




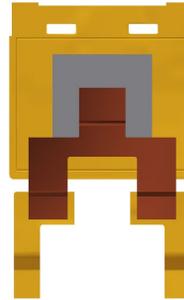
Automotive, AEC-Q101

45V-200V Schottky Barrier Surface Mount Rectifier

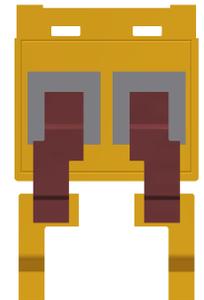
ThinDPAK[®]



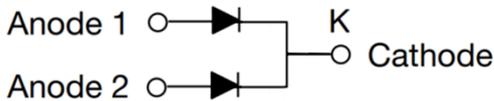
ThinDPAK



Single



Common cathode



KEY FEATURES:

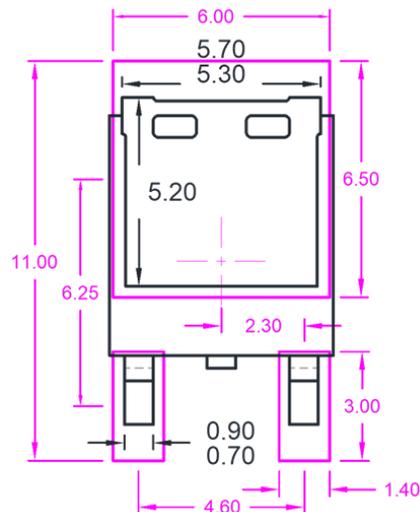
- AEC-Q101 qualified
- Low power loss, high efficiency
- Ideal for automated placement
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- RoHS Compliant
- Halogen-free

MECHANICAL DATA:

- Case: ThinDPAK
- Molding compound meets UL 94V-0 flammability rating
- Terminal: Matte tin plated leads, solderable per J-STD-002
- Meet JESD 201 class 2 whisker test
- Polarity: Indicated by cathode band
- Weight: 0.196g (approximately)

APPLICATIONS:

- Low voltage, high frequency, inverter
- DC/DC converter
- Freewheeling diodes
- Reverse battery protection
- Car lighting



PCB Footprint compatible
with standard DPAK (TO-252)



Product Portfolio

Part Number	Config.	V _{RRM} (V)	I _F (A)	IFSM (A)	VF (V) @ T _j 25°C		IR (uA) @ T _j 25°C	IR (uA) @ T _j 125°C
					Typ	Max	Max (uA)	Max (mA)
MBRAD545H	Single	45	5	120	0.58	0.7	100	20
MBRAD845H	Single		8	150	0.6	0.7	100	20
MBRAD1045H	Single		10	200	0.6	0.75	100	20
MBRAD1545H	Single		15	250	0.55	0.63	200	70
MBRAD2045H	Single		20	330	0.63	0.73	100	30
MBRAD1045DH	Common cathode		10(5A)	120	0.58	0.7	100	20
MBRAD1545DH	Common cathode		15(7.5A)	150	0.6	0.7	100	20
MBRAD560H	Single		60	5	120	0.66	0.8	100
MBRAD860H	Single	8		150	0.68	0.75	100	20
MBRAD1060H	Single	10		200	0.7	0.8	100	20
MBRAD1560H	Single	15		250	0.7	0.75	100	20
MBRAD2060H	Single	20		330	0.7	0.75	100	30
MBRAD1060DH	Common cathode	10(5A)		120	0.66	0.8	100	20
MBRAD1560DH	Common cathode	15(7.5A)		150	0.66	0.75	100	20
MBRAD5100H	Single	100		5	120	0.77	0.85	10
MBRAD8100H	Single		8	150	0.79	0.85	10	2
MBRAD10100H	Single		10	200	0.79	0.83	10	2
MBRAD15100H	Single		15	250	0.81	0.85	10	5
MBRAD20100H	Single		20	330	0.79	0.85	10	5
MBRAD10100DH	Common cathode		10(5A)	120	0.77	0.85	10	1
MBRAD15100DH	Common cathode		15(7.5A)	150	0.78	0.85	10	2
MBRAD5150H	Single		150	5	120	0.83	0.88	10
MBRAD8150H	Single	8		150	0.84	0.95	10	2
MBRAD10150H	Single	10		200	0.83	0.88	10	2
MBRAD15150H	Single	15		240	0.86	0.95	10	5
MBRAD20150H	Single	20		330	0.87	0.9	10	5
MBRAD10150DH	Common cathode	10(5A)		120	0.83	0.88	10	1
MBRAD15150DH	Common cathode	15(7.5A)		150	0.84	0.95	10	2
MBRAD5200H	Single	200		5	120	0.83	0.88	10
MBRAD8200H	Single		8	150	0.88	0.95	10	2
MBRAD10200H	Single		10	200	0.85	0.88	10	2
MBRAD20200H	Single		20	300	0.9	0.95	10	5
MBRAD10200DH	Common cathode		10(5A)	120	0.83	0.88	10	1
MBRAD15200DH	Common cathode		15(7.5A)	150	0.87	0.95	10	2

Ordering Information

Ordering Part Number	Outline (Package)	Reel (pcs)	Reel Size (inch)	Inner Box (pcs)	Carton (pcs)	Carton Size (mm)	Gross Weight (kg/ carton)
P/Ns	ThinDPAK	4,500	13	9,000	45,000	360 x 355 x 245	13.1

For more information or other products, please visit TSC website <https://www.taiwansemi.com/>