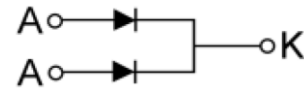


SCHOTTKY BARRIER RECTIFIERS REVERSE VOLTAGE 200V FORWARD CURRENT 20A

DESCRIPTION:



The ALPMBRS20200CT is Schottky Barrier Rectifiers Reverse Voltage 200V Forward Current 20A used on Power Supply output rectification



FEATURES:

- Low reverse leakage
- High forward surge capability
- High reliability
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

APPLICATIONS:

- Power Supply – Output Rectification
- Power Management
- Instrumentation

MECHANICAL CHARACTERISTICS

- Case: Molded plastic, TO-252
- Epoxy: UL 94V-0 rate flame retardant.
- Lead: Pure tin plated, lead free.
- Mounting Position: Any.

TYPICAL DEVICE CHARACTERISTICS
MAXIMUM RATINGS ($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC blocking voltage	V_{DC}	200	V
Maximum average forward rectified current	$I_{F(AV)}$	20.0	A
Non-repetitive peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	160	A
Maximum forward voltage @ $I_F=10.0\text{A}$	V_F	0.95	V
Maximum reverse current @ V_{DC}	$T_J = 25^{\circ}\text{C}$	0.01	mA
	$T_J = 125^{\circ}\text{C}$	10	
Typical thermal resistance (Note 1)	$R_{\theta JC}$	3	$^{\circ}\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to ± 175	$^{\circ}\text{C}$

NOTES:

1. Thermal resistance from junction to case, PCB mounted.

TYPICAL DEVICE CHARACTERISTICS CURVES ($T_A = 25^\circ\text{C}$ unless otherwise noted)

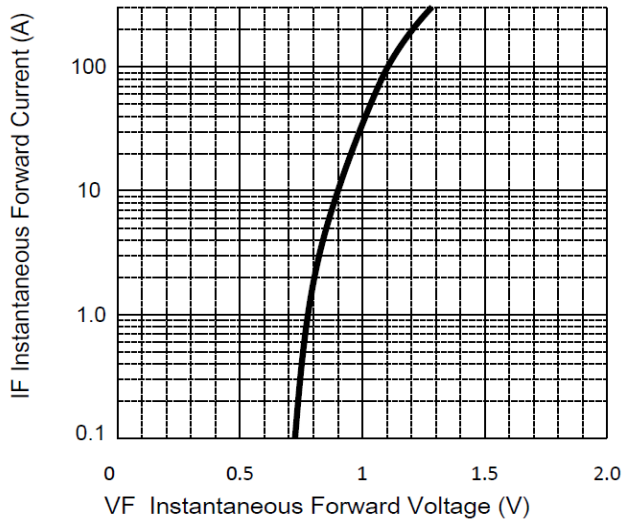


Fig.1 TYPICAL FORWARD CHARACTERISTICS

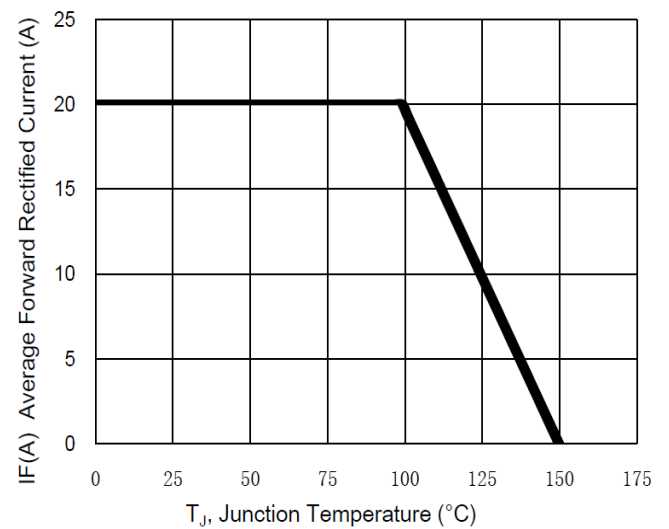


Fig.2 FORWARD CURRENT DERATING CURVE

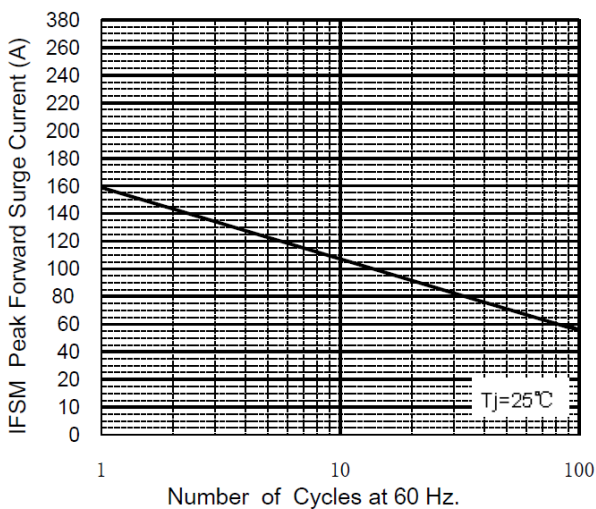


Fig.3 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

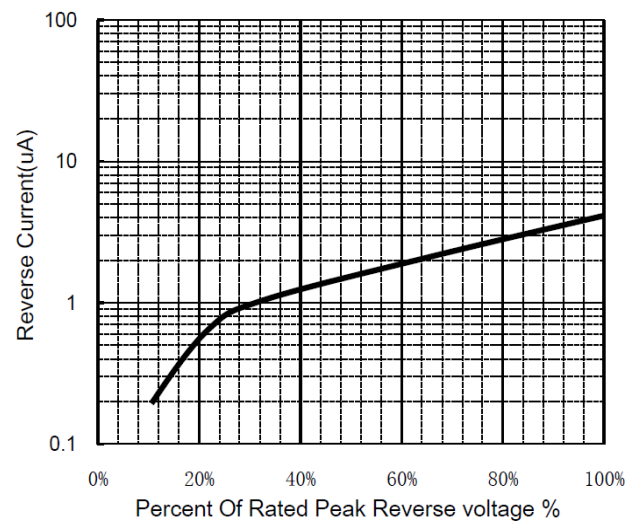
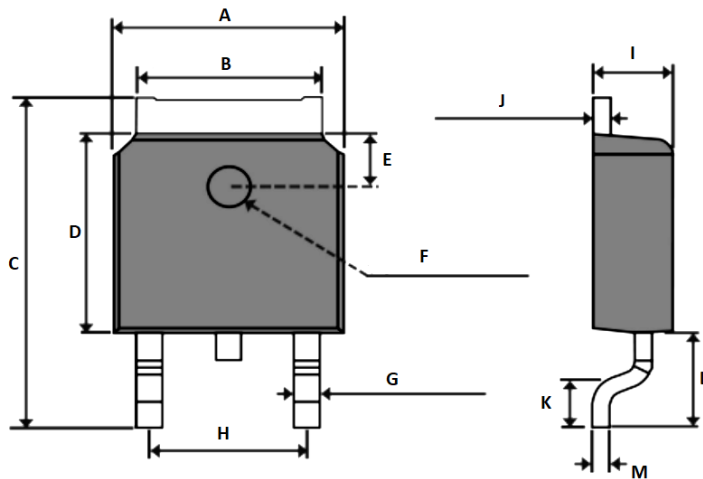


Fig.4 TYPICAL REVERSE CHARACTERISTICS

PACKAGE INFORMATION

TO-252



OUTLINE DIMENSIONS	
DIM	MILLIMETERS
A	6.60 ±0.30
B	5.28 ±0.30
C	10.20 ±0.30
D	6.10 ±0.30
E	1.55 REF.
F	0.12 REF
G	0.76 ±0.20
H	4.54 REF.
I	2.30 ±0.20
J	0.52 ±0.15
K	2.00 REF.
L	2.905 ±0.25
M	0.505 ±0.10
NOTES - Controlling dimension: millimeters. - Dimensioning and tolerances per ANSI Y14.5M, 1985. - Dimensions are exclusive of mold flash and metal burrs.	



beyond boundaries...

ALPMBRS20200CT
TO-252

CUSTOMER NOTE:

DISCLAIMER

The product information and the selection guide facilitates the selection of the ALPINESEMI™'s Semiconductor Device(s) best suited for application in your product(s) as per your requirement. It is recommended that you completely review the Data sheet(s) so as to confirm that the Device(s) meets functionality parameters for your application. The information furnished on the Data Sheet and the ALPINESEMI™'s Web Site is believed to be accurate and reliable at the time of preparation of this document. ALPINESEMI™ however, does not assume any inaccuracies that may arise when the components are mounted and removed. Furthermore, ALPINESEMI™ does not assume liability whatsoever, arising out of the application or the use of any of ALPINESEMI™'s product(s). Neither, does it convey any license under its patent rights nor the rights of others. These products are not guaranteed for use in life saving/support appliances or systems. ALPINESEMI™'s customers using these products (either as individual Semiconductor Devices or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and ALPINESEMI™ will not be responsible in any way(s) for any damage(s) resulting from such use.

Please check the website **www.alpinesemi.com** for continues updates and revision of datasheets.

DESIGN CHANGES: ALPINESEMI™ strives for continuous improvement and reserves the right to change the specifications of its products without prior notice. ALPINESEMI™ reserves the right to discontinue product lines without prior notice. Any product selection is a recommendation based on best understanding of such product(s) by our engineers. However, buyers are advised to rely on their own judgment for such selection of the products.

ALPINESEMI™ makes no warranty, representation or guarantee regarding the suitability of its products for any particular applications. Neither does ALPINESEMI™ assume any liability arising out of the applications nor the use of such products. ALPINESEMI™ specifically disclaims all liabilities either consequential or incidental.

All rights of the product and datasheet are reserved to ALPINESEMI™.

All logos and information provided in the datasheets are for reference only. Any registered and/or trademark/logos belonging to respective companies be the property of those companies. ALPINESEMI™ extends the courtesy to them, if any of the information found in its datasheet.

Component Disposal Instructions

1. ALPINESEMI™ Semiconductor Devices are RoHS compliant and hence customers are requested to dispose as per the prevailing Environmental Legislation put forth in their specific country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).



sales@alpinesemi.com
www.alpinesemi.com