

Features

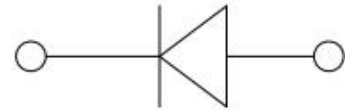
- Low power loss
- Low forward voltage drop
- Guardring for overvoltage protection
- Extremely fast switching
- High frequency operation
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s ,
per JESD 22-B106

Typical Application

For use in low voltage high frequency inverters,
freewheeling, DC/DC converters, and polarity
protection
applications.

Mechanical Data

- Package: DO-201AD(DO-27)
Molding compound meets UL 94 V-0 flammability
rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002
and JESD22-B102
- Polarity: Color Band denotes cathode end



■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SR360L
-----------	--------	------	------------	--------

安美半导体
ANMEI Semiconductor

SR360L

Schottky Rectifier

Repetitive Peak Reverse Voltage	V_{RRM}	V		60
Average Rectified Output Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_a=75^{\circ}C$	3.0
Surge(Nonrepetitive)Forward Current	I_{FSM}	A	60HZ sine wave, 1 cycle, $T_a=25^{\circ}C$	55
Storage Temperature	T_{stg}	$^{\circ}C$		-55 ~ +150
Junction Temperature	T_j	$^{\circ}C$		-55 ~ +150

Electrical Characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SR360L	
Peak Forward Voltage	V_{FM}	V	$I_{FM}=3.0A$	0.5	
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}C$	0.2
	I_{RRM2}			$T_a=100^{\circ}C$	50
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}C/W$	Between junction and ambient	20	
	$R_{\theta J-L}$		Between junction and lead	15	
Typical junction capacitance	C_j	pF	Measured at 1 MHz and Applied Reverse Voltage of 4.0 V.D.C	250	

■ Characteristics (Typical)

FIG1: Forward Current Derating Curve

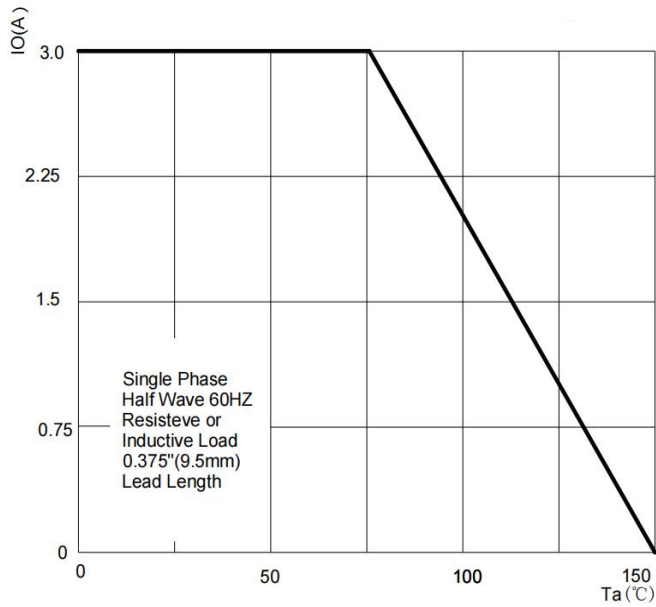


FIG2: Maximum Non-Repetitive Forward Surge Current

Current

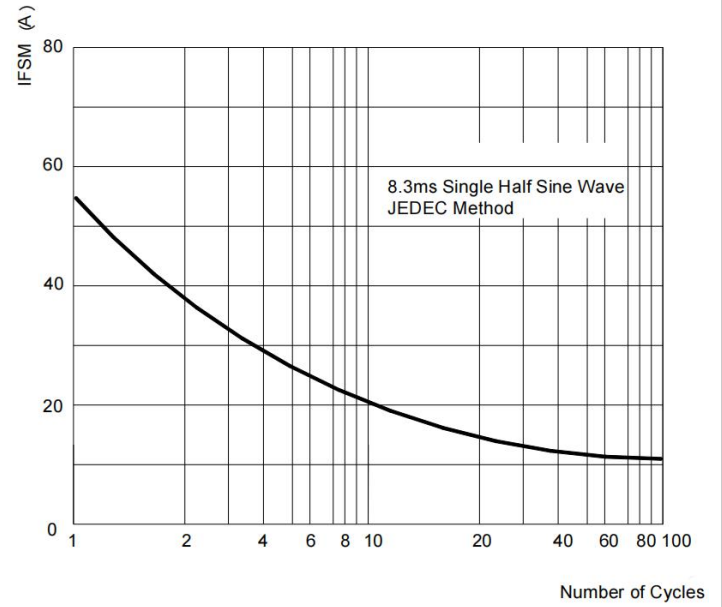


FIG3: Typical Forward Characteristics

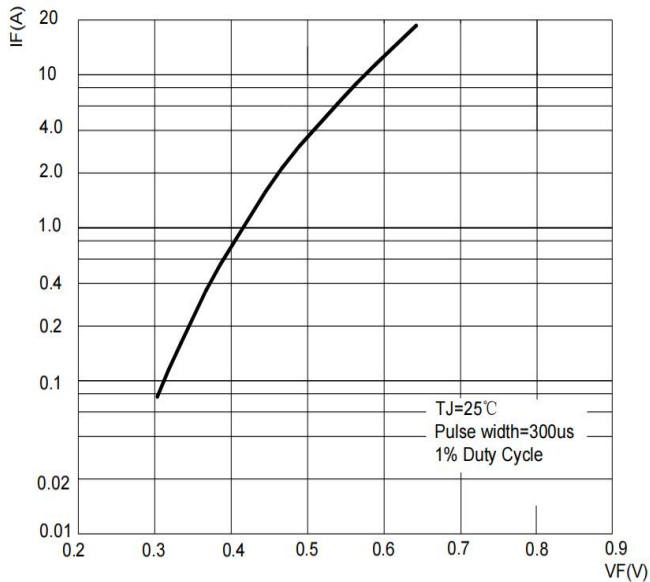
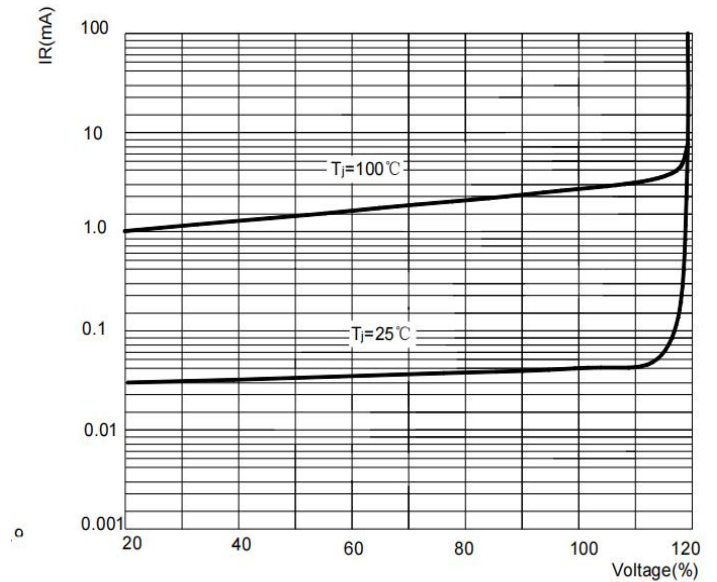


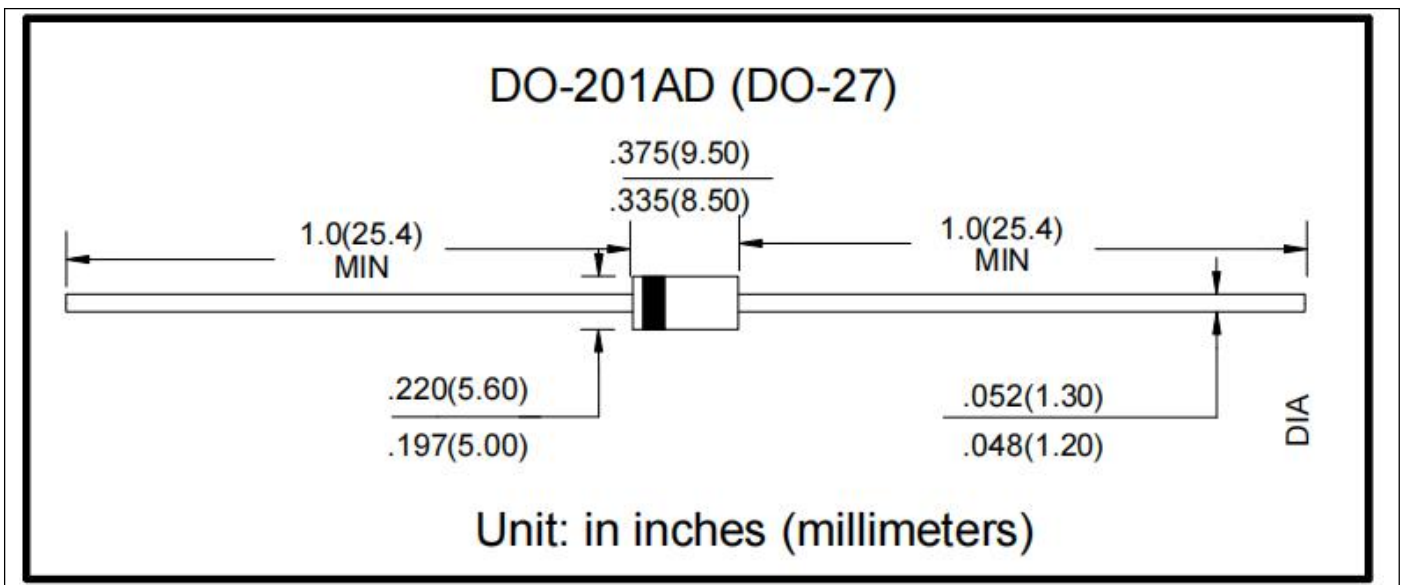
FIG4: Typical Reverse Characteristics



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR360L	DO-201AD(DO-27)	1250	1250	12500	Tape

■ Outline Dimensions





安美半导体
ANMEI Semiconductor

SR360L

IMPORTANT NOTICE AND DISCLAIMER

AM RESERVES THE RIGHT TO MAKE CHANGES TO ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. CUSTOMERS SHOULD OBTAIN AND CONFIRM THE LATEST PRODUCT INFORMATION AND SPECIFICATIONS BEFORE FINAL DESIGN PURCHASE OR USE.

AM disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

All information are provided as-is, even it has qualified by the AEC-Q101 which satisfy industrial application requirement, except as expressly stated in this data sheet is applied for automotive grade, AM make no warranties, representation or guarantee, whether express, implied or statutory, including, without limitation, regarding any merchantability, satisfactory quality, or fitness for a particular purpose with respect to AM.

Am does not assume any liability or compensation for any application assistance or customer product design, and make no warranty or accept any liability with products, which are purchased or used for any unintended or unauthorized application.

Except as expressly indicated in writing, AM products are not designed for use in medical, life-saving, or lifesustaining applications or for any other application in which the failure of the AM product could result in personal injury or death. Customers using or selling AM products not expressly indicated for use in such applications do so at their own risk. Please contact authorized AM personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of AM. Product names and markings noted herein may be trademarks of their respective owners.