

### FEATURES

- ✧ High current capability, low forward voltage
- ✧ Excellent high temperature stability
- ✧ Low power loss, and high efficiency
- ✧ High forward surge capability
- ✧ RoHS compliant

### MACHANICAL DATA

- ✧ Case: DO-201AD(DO-27) plastic package
- ✧ Terminal: Matte tin plated, solderable per MIL-STD-750, Method 2026
- ✧ Molding Compound Flammability Rating:UL94-0
- ✧ High temperature soldering guaranteed: 260°C/10second
- ✧ Packed with FRP substrate and epoxy underfilled

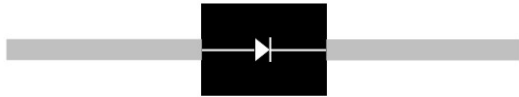
### ORDERING INFORMATION

- ✧ Device: SB540U
- ✧ Package: DO-201AD(DO-27)
- ✧ Marking: SB540U
- ✧ Material: RoHS compliant
- ✧ Packing: Tape & Ammo
- ✧ Quantity per box: 1,250pcs

### APPLICATIONS

- ✧ Switching mode power supply applications
- ✧ Portable equipment battery applications
- ✧ High frequency rectification
- ✧ DC/DC converter

### PIN CONFIGURATION



### PACKAGE OUTLINE



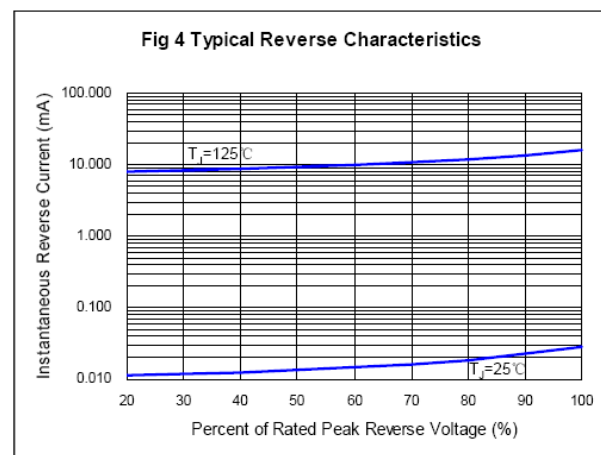
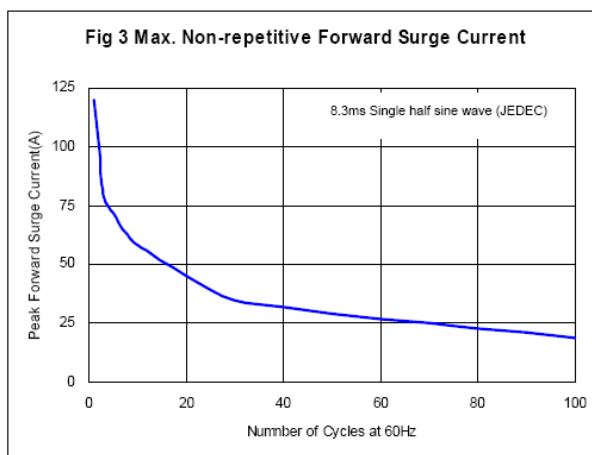
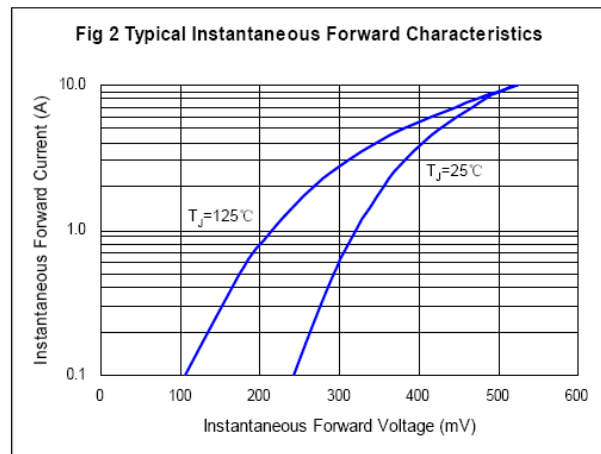
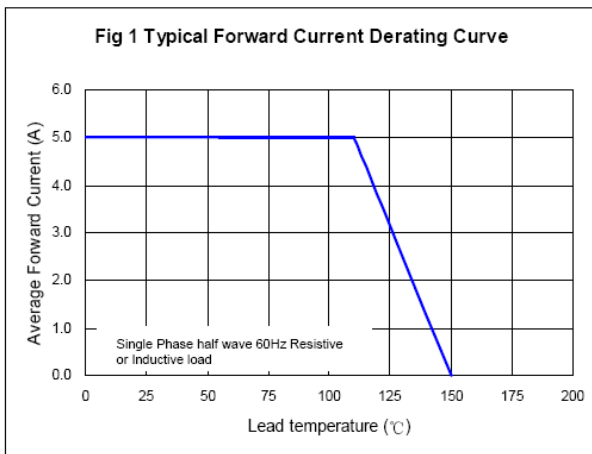
### ABSOLUTE MAXIMUM RATING (Tamb=25°C, unless otherwise specified)

Symbol	Parameter	Value	Units
$V_{RRM}$	Repetitive Peak Reverse Voltage	40	V
$I_{F(AV)}$	Average Forward Current	5	A
$I_{FSM}$	Peak Forward Surge Current, 8.3ms single half sine-wave	120	A
$T_J$ & $T_{STG}$	Junction and Storage Temperature	-50~+150	°C

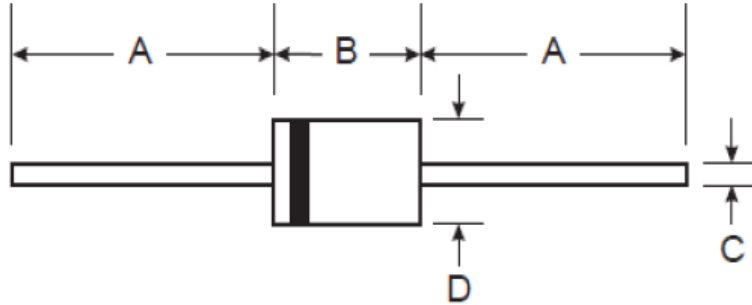
### ELECTRICAL CHARACTERISTICS (Tamb=25°C, unless otherwise specified)

Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V <sub>F</sub>	Forward Voltage	I <sub>F</sub> = 3A Ta=25°C		0.38	0.41	V
		I <sub>F</sub> = 3A Ta=125°C		0.31		V
		I <sub>F</sub> = 5A Ta=25°C		0.43	0.47	V
		I <sub>F</sub> = 5A Ta=125°C		0.38		V
V <sub>R</sub>	Reverse Breakdown Voltage	I <sub>R</sub> = 0.5mA	40			V
I <sub>R</sub>	Reverse Leakage Current	V <sub>R</sub> = 40V Ta=25°C			120	μA
		V <sub>R</sub> = 40V Ta=125°C		18		mA

### ELECTRICAL CHARACTERISTICS CURVE



## DO-201AD(DO-27) PACKAGE OUTLINE DIMENSIONS



DO-201AD(DO-27) Plastic				
Dim	Min		Max	
	Inch	mm	Inch	mm
A	1.0	25.4	-	-
B	0.285	7.2	0.375	9.5
C	0.039	1.0	0.052	1.3
D	0.190	4.8	0.210	5.3