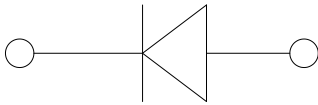
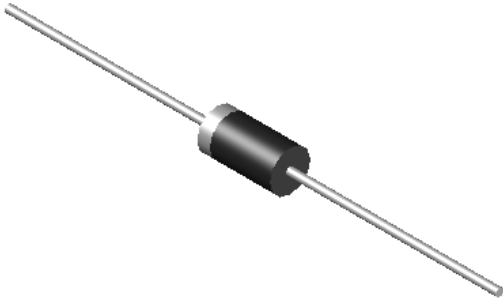




General Purpose Rectifier



Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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	BY251G	BY252G	BY253G	BY254G	BY255G
Device marking code			BY251G	BY252G	BY253G	BY254G	BY255G
Repetitive Peak Reverse Voltage	V _{RRM}	V	200	400	600	800	1300
Average Forward Current @60Hz sine wave, Resistance load, Ta =70°C	I _{F(AV)}	A	3.0				
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, Ta=25°C	I _{FSM}	A	200				
Storage Temperature	T _{stg}	°C	-55 ~+150				
Junction Temperature	T _j	°C	-55~+150				

■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BY251G	BY252G	BY253G	BY254G	BY255G
Maximum instantaneous forward voltage drop per diode	V _{FM}	V	I _{FM} =3.0A	1.1				
Maximum DC reverse current at rated DC blocking voltage per diode	I _{RRM1}	μA	T _a =25°C	2.5				
	I _{RRM2}		T _a =100°C	50				
Typical junction capacitance	C _j	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	40				

■ Thermal Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	BY251G	BY252G	BY253G	BY254G	BY255G
Thermal Resistance(Typical)	R _{θJ-A}	°C/W	30				



BY251G THRU BY255G

Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BY251G~BY255G	D1	Approximate 1.05	1250	1250	12500	Tape
BY251G~BY255G	C1	Approximate 1.05	250	250	12500	Bulk

Characteristics (Typical)

FIG.1: I_o-T_a Curve

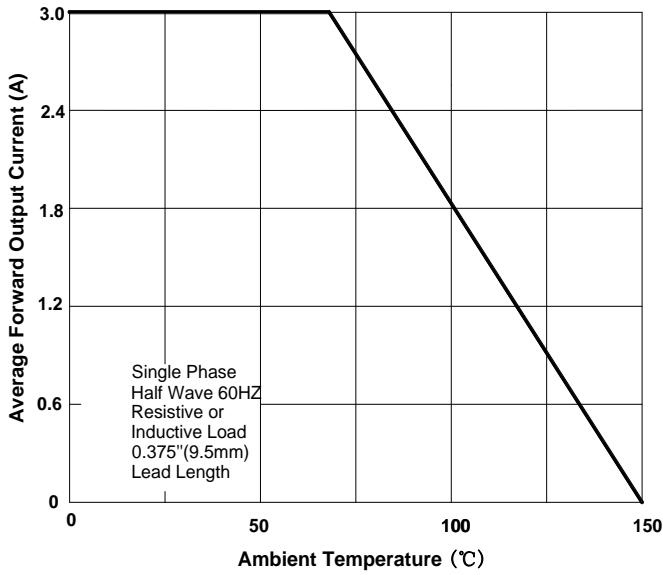


FIG.2: Forward Surge Current Capability

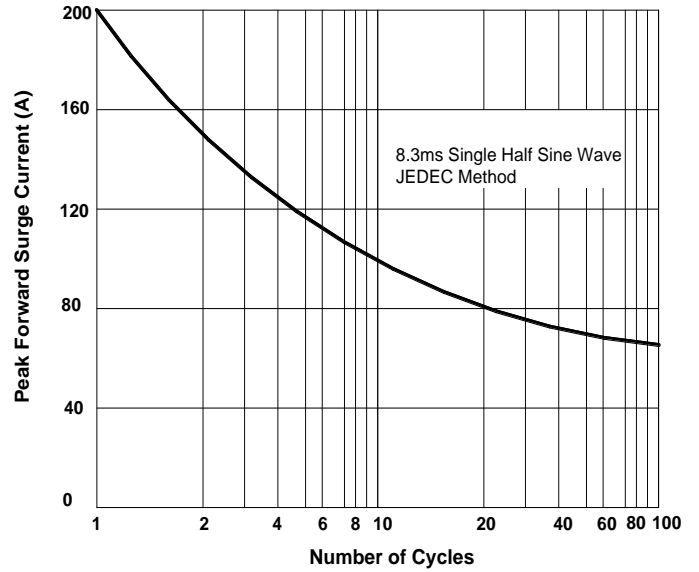


FIG.3: Forward Voltage

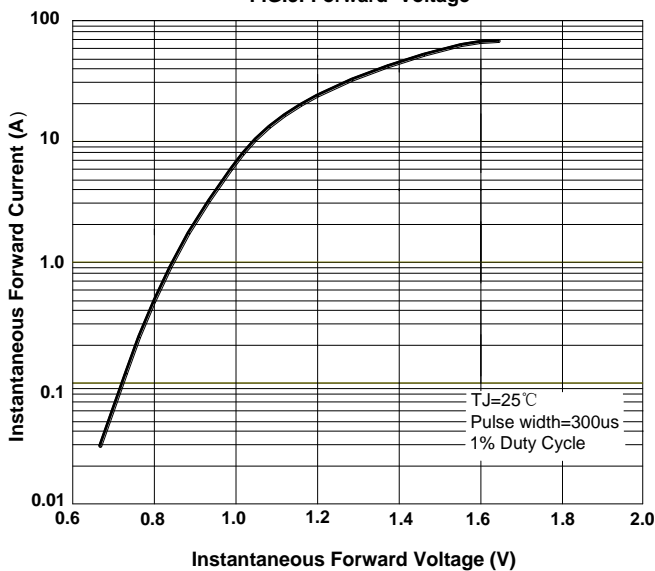
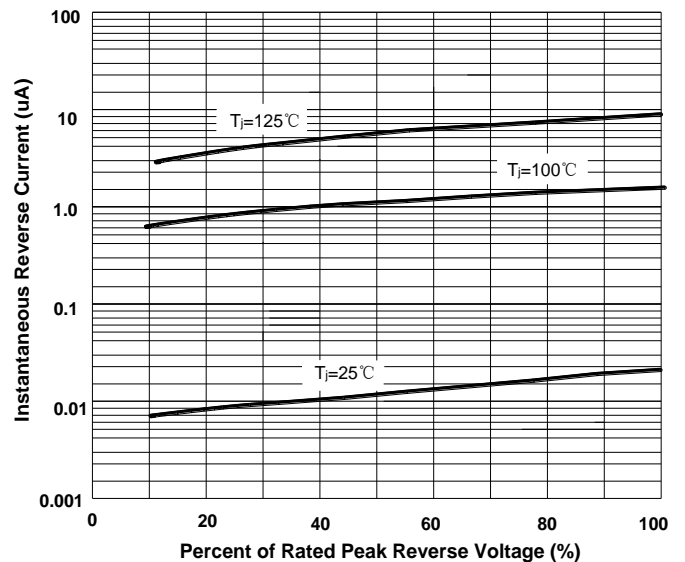


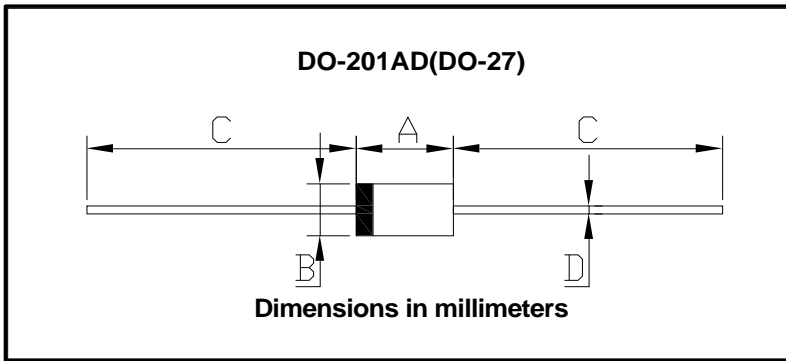
FIG.4: Typical Reverse Characteristics





BY251G THRU BY255G

■ Outline Dimensions



DO-201AD(DO-27)		
Dim	Min	Max
A	8.50	9.50
B	5.00	5.60
C	25.4	/
D	1.20	1.30



BY251G THRU BY255G

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