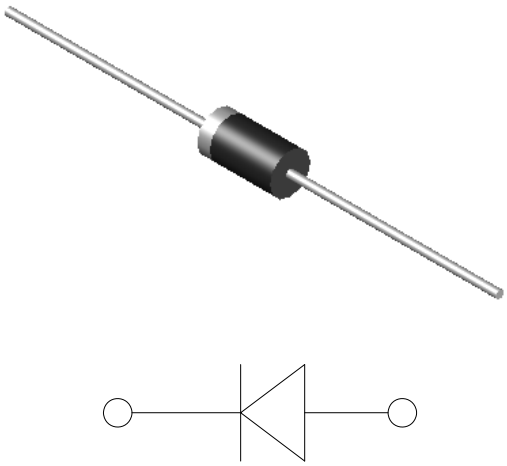
General Purpose Rectifier



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℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Device marking code			1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Average Forward Current @60Hz sine wave, Resistance load, Ta =60℃	$I_{F(AV)}$	A	3.0						
Forward Surge Current (Non-repetitive) @ 60Hz Half-sine wave,1 cycle, Ta=25℃	I_{FSM}	A	150						
Storage Temperature	Tstg	℃	-55 ~+150						
Junction Temperature	Tj	℃	-55~+150						

■Electrical Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Maximum instantaneous forward voltage drop per diode	V_{FM}	V	I_{FM}=3.0A	1.0						
Maximum DC reverse current at rated DC blocking voltage per diode	I_{RRM1}	μA	Ta=25℃	2.5						
	I_{RRM2}		Ta=125℃	50						
Typical junction capacitance	Cj	pF	Measured at 1MHZ and Applied Reverse Voltage of 4.0 V.D.C.	50						

■Thermal Characteristics (Ta=25℃ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	30						

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N5400~1N5408	D1	Approximate 1.05	1250	1250	12500	Tape
1N5400~1N5408	C1	Approximate 1.05	250	250	12500	Bulk

■ Characteristics (Typical)

FIG.1: Io-Ta Curve

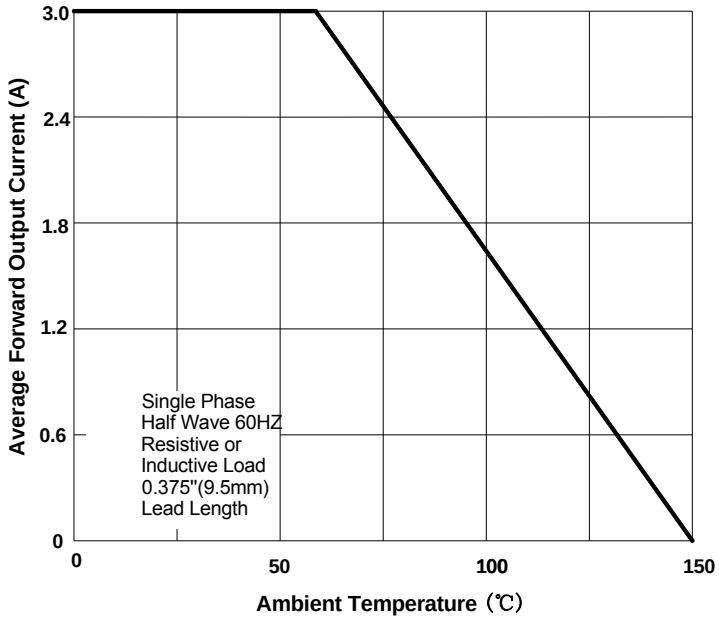


FIG.2: Forward Surge Current Capability

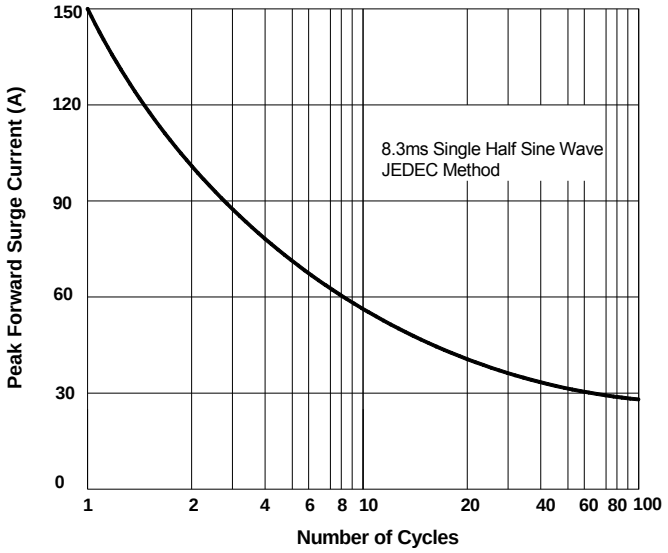


FIG.3: Forward Voltage

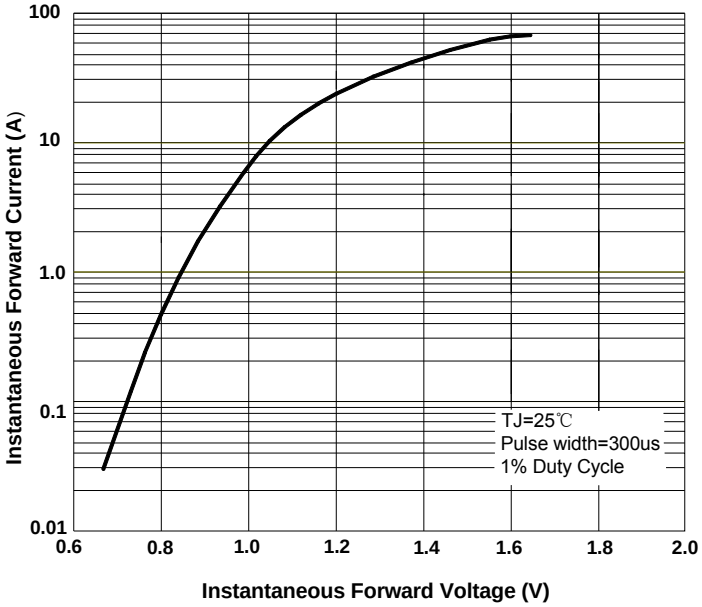
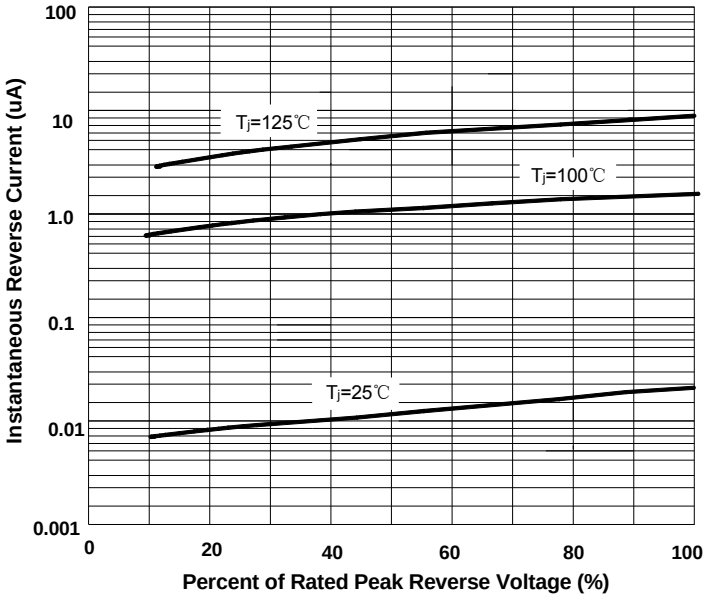
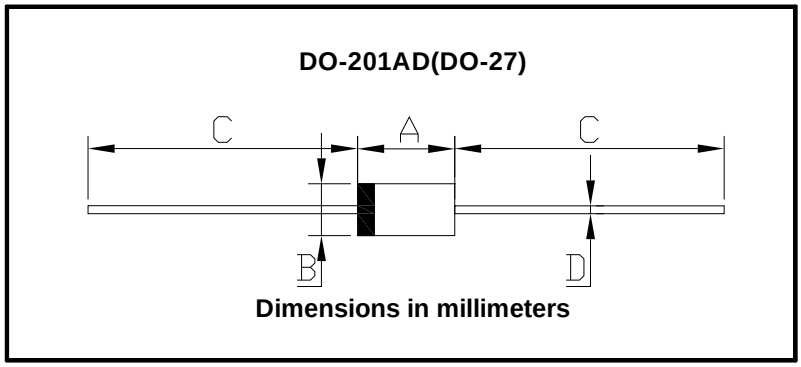


FIG.4: Typical Reverse Characteristics



■ 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

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