

Features

- ◆ High efficiency
- ◆ High current capability
- ◆ High reliability
- ◆ High surge current capability
- ◆ Low power loss
- ◆ Glass passivated chip junction



Applications

- ◆ Power supplies
- ◆ Inverters
- ◆ Converters
- ◆ Freewheeling diodes

Mechanical Data

- ◆ Case: DO-41
- ◆ Molding compound meets UL 94 V-0 flammability rating
- ◆ RoHS Compliant
- ◆ Polarity: Color band denotes positive end

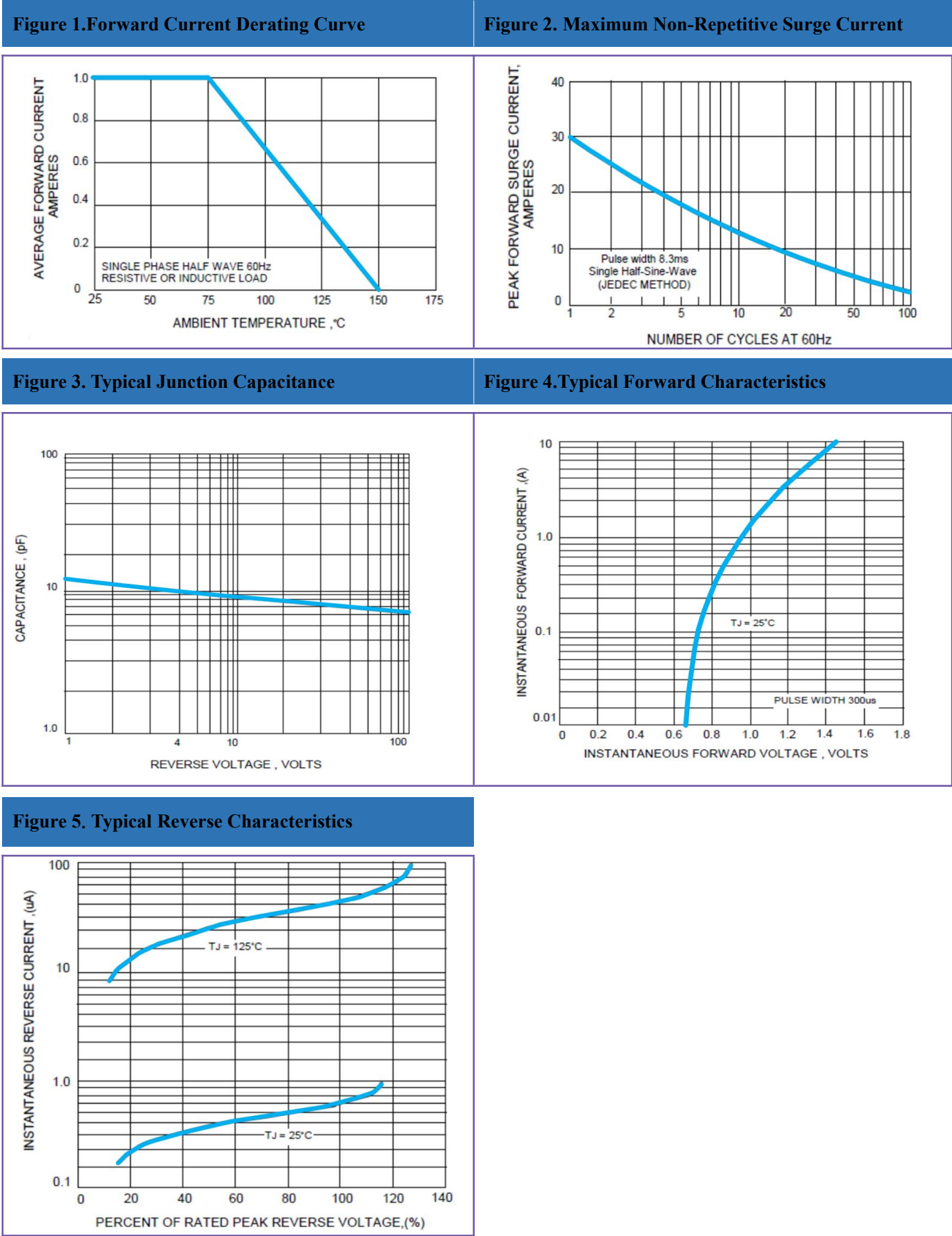
Dimensions (DO-41/DO-204AL)

Ref.	Millimeters		Inches	
	Min.	Max.	Min.	Max.
L	25.40	-	1.000	-
T	4.10	5.20	0.165	0.205
D	2.00	2.70	0.080	0.107
d	0.71	0.86	0.028	0.034

Maximum Rating and Characteristics($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Rating		Symbol	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	Unit
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	V
Average Forward Current @Half-sine wave, Resistance load		I _O	1.0							A
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, T _A =25 °C		I _{FSM}	30							A
Maximum forward Voltage at 1.0A		V _F	1.1							V
Peak Reverse Current at Rated DC Blocking Voltage	@T _J =25°C	I _R	2.5							μA
	@T _J =125°C		50							
Current squared time @1ms≤t≤8.3ms T _A =25 °C,Rating of per diode		I ² t	3.7							A ² s
Typical Thermal Resistance		R _{thJA}	60							°C/W
Operating Temperature Range		T _J	-55 to +150							°C
Storage Temperature Range		T _{STG}	-55 to +150							°C

Ratings and Characteristic Curves (T_A=25°C unless otherwise noted)



Wave Soldering Parameters

