

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed: 260°C/10seconds, 9.5mm lead length
- Lead and body according with RoHS standard

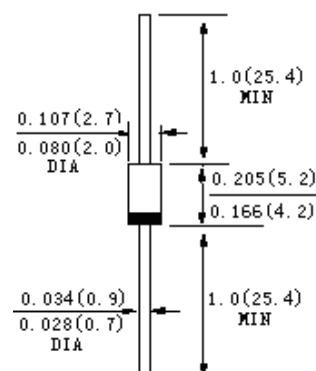
Mechanical Data

Case: DO-41 Molded plastic

Epoxy: UL 94V-0 rate flame retardant

Lead: Pure tin plated, lead free

DO-41



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified

Single phase, half wave, 60 Hz, resistive or inductive load

For capacitive load, derate current by 20%

TYPE NUMBER	Symbols	UF 100	UF 101	UF 102	UF 104	UF 106	UF 108	UF 1010	Units							
Maximum repetitive 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							
Maximum average forward rectified current 9.5mm lead length at TA=55°C	I _{F(AV)}	1.0							A							
Peak Forward Surge Current, 8.3ms single half-wave superimposed on rated load(JEDEC method)	I _{FSM}	30							A							
Maximum instantaneous forward voltage at 1.0A	V _F	1.0		1.3		1.7		V								
Maximum reverse recovery time(Note1)	T _{rr}	50			75			nS								
Maximum DC reverse current at rated DC blocking voltage	Ta=25°C	I _{RI}	10													
	Ta=100°C	I _{R2}	100													
Operating junction temperature range	T _J	-55 to +150							°C							
Storage temperature range	T _{stg}	-55 to +150							°C							

Note: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A.

Characteristic Curves

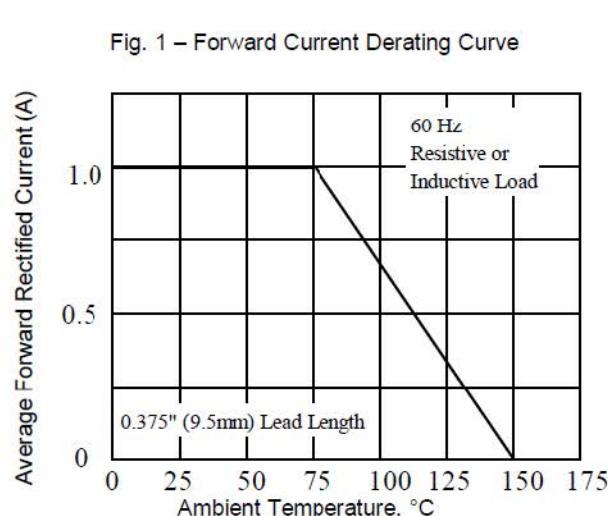


Fig 3. – Typical Instantaneous Forward Characteristics

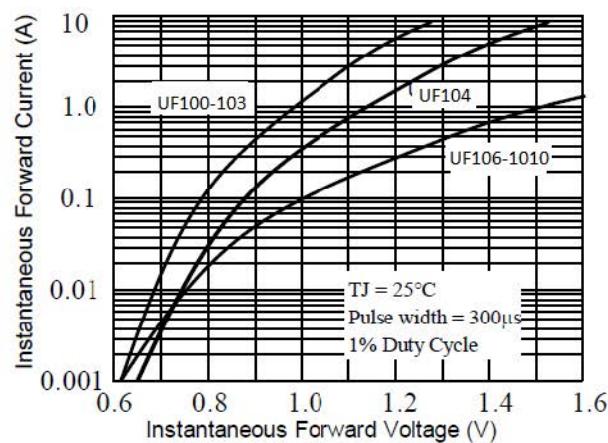


Fig 5. – Typical Junction Capacitance

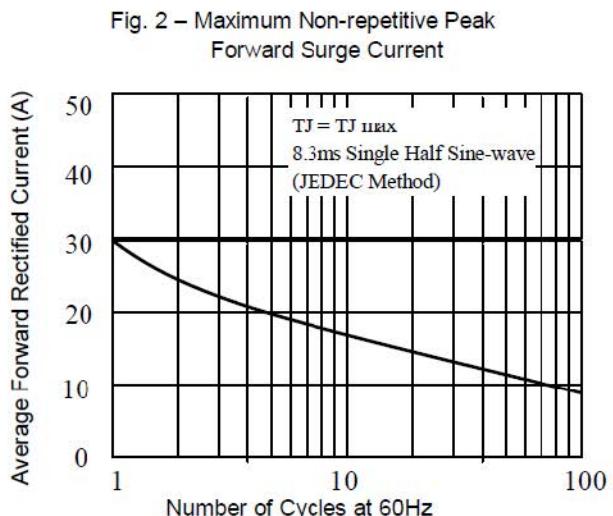
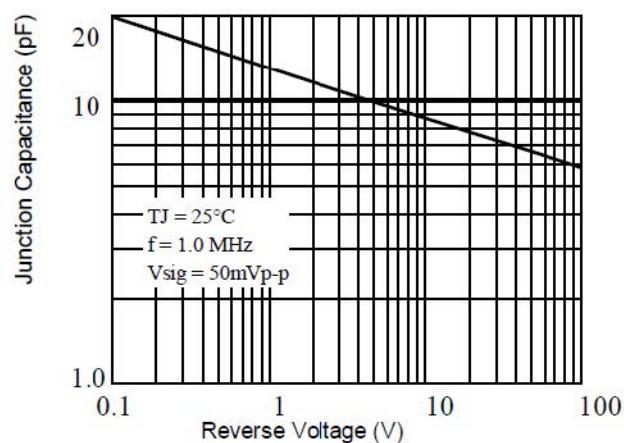


Fig 4. – Typical Reverse Characteristics

