

FAST RECOVERY RECTIFIER

VOLTAGE RANGE: 50 TO 1000 VOLTS

CURRENT: 1.0 AMPERES

FEATURES

- Low cost
- · Diffused junction
- Low leakage
- Low forward voltage drop
- · High current capability
- · Easily cleaned with Freon, Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-O

MECHANICAL DATA

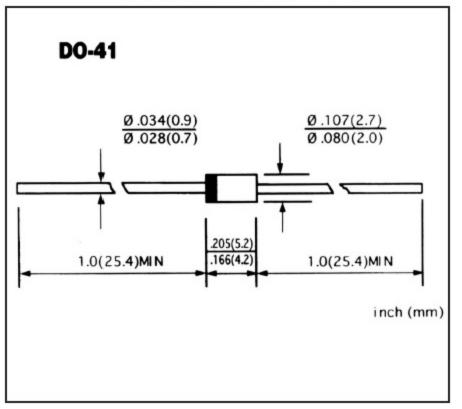
Case: JEDEC DO-41, molded plastic

Terminals: Axial leads, solder able per MIL-STD-202,

Method 208

Polarity: Color band denotes cathode Weight: 0.012 ounce, 0.34 gram

Mounting position: Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.

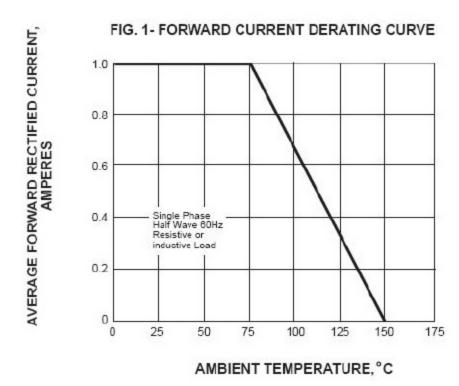
Parameters		FR 101	FR 102	FR 103	FR 104	FR 105	FR 106	FR 107	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 9.5mm Lead Length, @ T _A =75°C	I _(AV)	1.0							Α
Peak Forward Surge Current @T _j =125℃									
8.3ms Single half-sine-wave superimposed on rated load	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage at 1.0A	V _F	1.3							V
Maximum Reverse Current @T _A =25°C at Rated DC Blocking Voltage @T _A =100°C	I _R	5 100							μ Α
Maximum Reverse Recovery Time(Note 1)	t _{rr}	150			250	500		ns	
Typical Junction Capacitance (Note 2)	Cj	15					8		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	20							°C/W
Operating Junction Temperature Range	Tj	-65+150							$^{\circ}\mathbb{C}$
Storage Temperature Range	T _{STG}	- 65 +150							°C

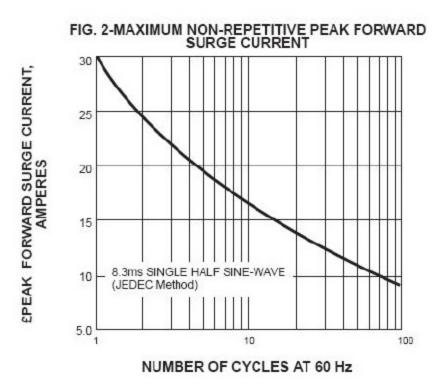
NOTE: 1.Measured with IF=0.5A, IR=1A, Irr=0.25A

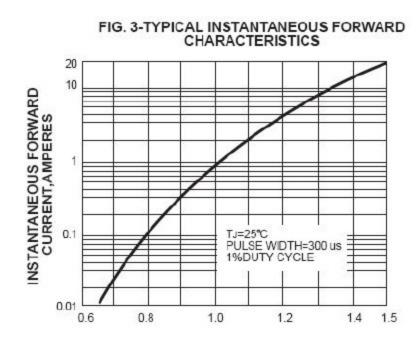
- 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal Resistance Junction to Ambient.

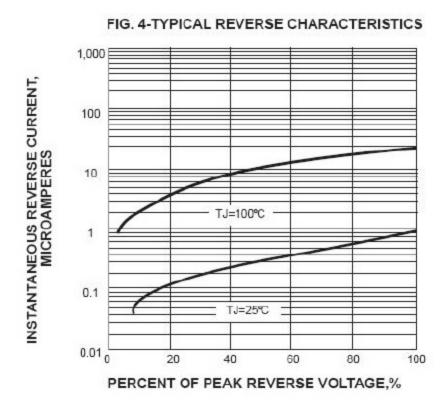


RATINGS AND CHARACTERISTIC CURVES

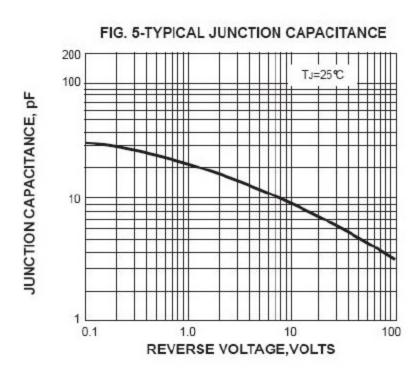


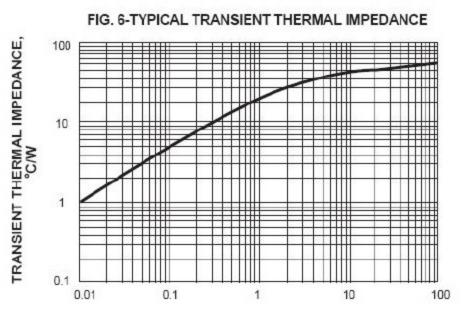












t,PULSE DURATION,sec.



