BYW36

SINTERED GLASS JUNCTION
FAST AVALANCHE RECTIFIER

VOLTAGE：600V **CURRENT: 2.0A**

GULF SEMI

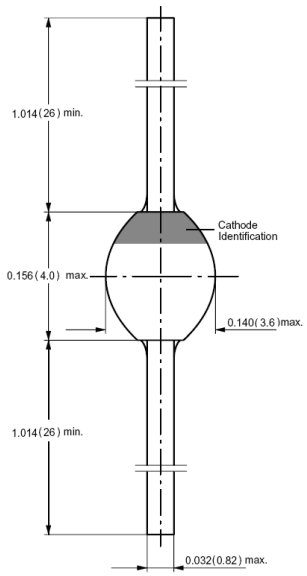
FEATURE

Glass passivated
High maximum operating temperature
Low leakage current
Excellent stability
Guaranteed avalanche energy absorption capability

MECHANICAL DATA

Case: SOD-57 sintered glass case
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Polarity: color band denotes cathode end
Mounting position: any

SOD-57



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	BYW36	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	600	V
Maximum RMS Voltage	V_{RMS}	420	V
Maximum DC blocking Voltage	V_{DC}	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta=55°C	I_{FAV}	2.0	A
Peak Forward Surge Current at Tp=10ms half sinewave	I_{FSM}	40	A
Maximum Forward Voltage at Forward Current 2A	V_F	1.2	V
Maximum full load Reverse Current Ta =25°C Full cycle average,0.375″ (9.5mm) Ta =100°C lead length	I_R	5.0 50.0	μA
Maximum Reverse Recovery Time (Note1)	Trr	200	nS
Tyoical Junction Capacitance (Note2)	Cj	15	pF
Typical Thermal Resistance (Note3)	$R_{th(ja)}$	55	°C /W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	°C

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
3. Thermal resistance from junction to ambient at 0.375″ (9.5mm) lead length, P.C.B. mounred

RATINGS AND CHARACTERISTIC CURVES BYW36

FIG. 1 - FORWARD CURRENT DERATING CURVE

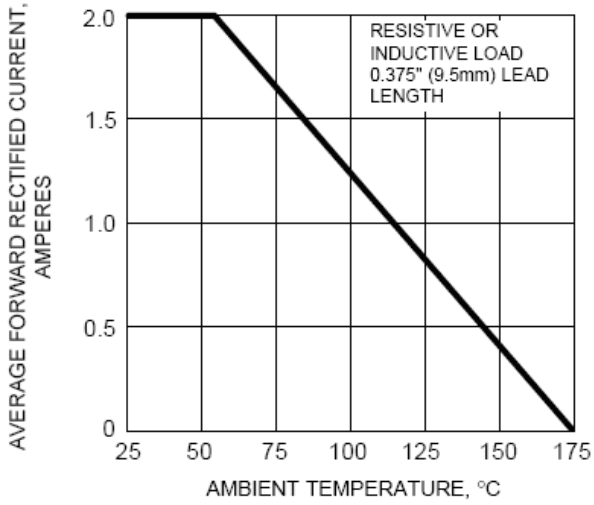


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

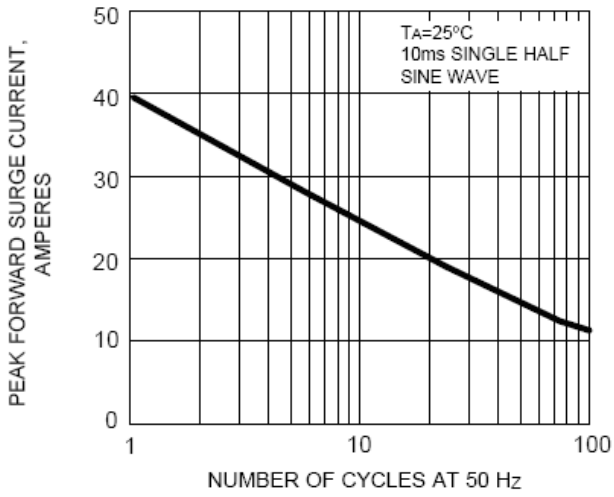


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

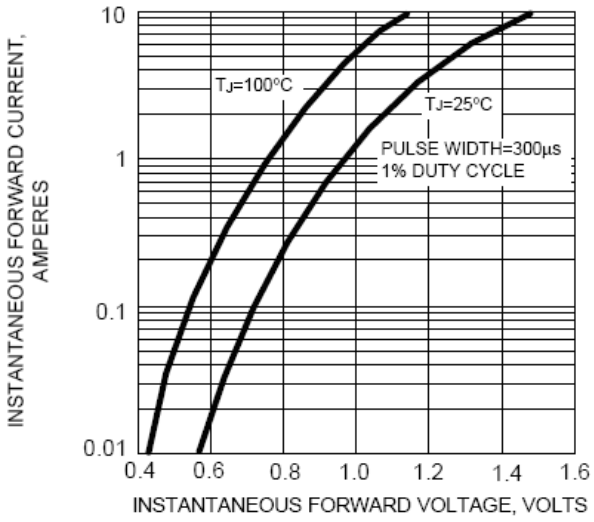


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

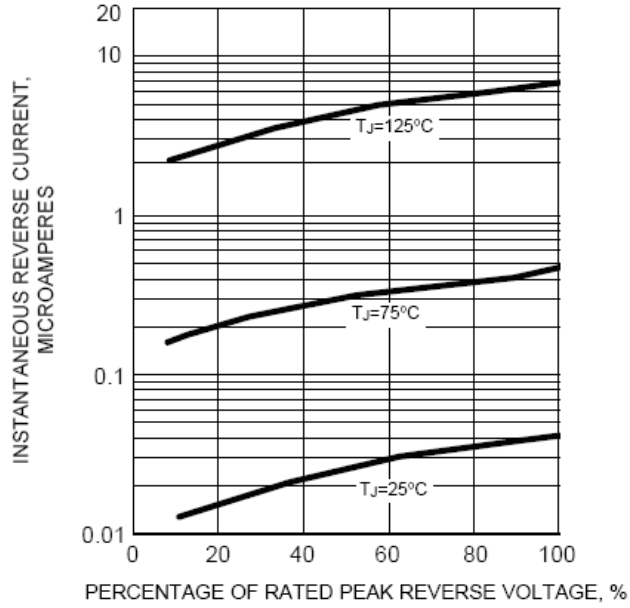


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

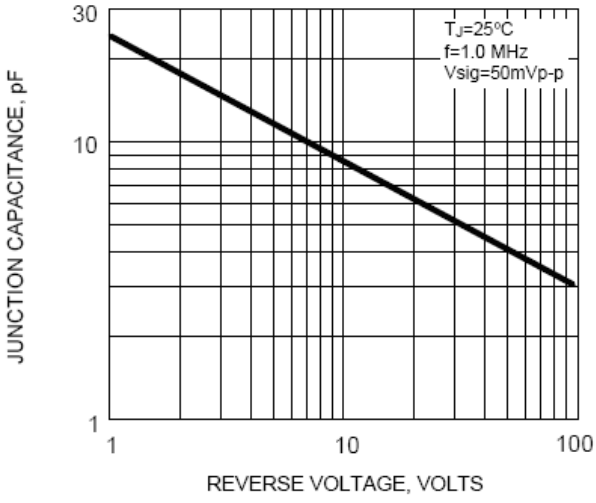


FIG. 6 - TYPICAL RECTIFICATION EFFICIENCY