BYM26C

SINTERED GLASS JUNCTION
ULTRAFAST AVALANCHE RECTIFIER

VOLTAGE: 600V **CURRENT: 2.3A**

GULF SEMI

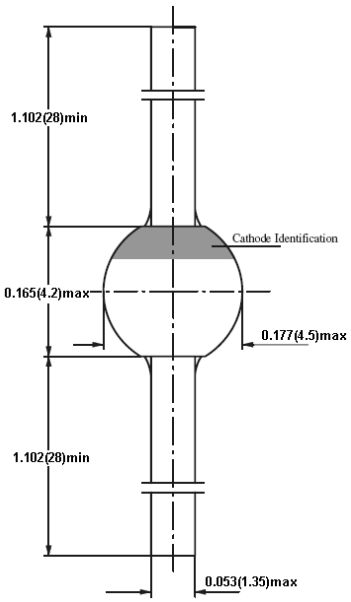
FEATURE

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

MECHANICAL DATA

Case: SOD-64 sintered glass case
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C
Polarity: color band denotes cathode end
Mounting position: any

SOD-64



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	BYM26C	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
Reverse Breakdown Voltage at I_R = 0.1mA	$V_{(BR)R}$	700min	V
Maximum Average Forward Rectified Current and Ttp=55°C; lead length=10mm	I_{FAV}	2.3	A
Peak Forward Surge Current at t=10ms half sine wave	I_{FSM}	45	A
Maximum Forward Voltage at Rated Forward Current and 25°C I_F = 2.0A	V_F	2.65	V
Maximum DC Reverse Current Ta = 25°C at rated DC blocking voltage Ta = 150°C	I_R	10 150	μA
Maximum Reverse Recovery Time (Note 1)	Trr	30	nS
Non Repetitive Reverse Avalanche Energy	E_R	10	mJ
Diode Capacitance at f=1MHz,V_R=0V	C_d	85	pF
Typical Thermal Resistance (Note 2)	$R_{th(ja)}$	75	K/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	℃

Note:
1. Reverse Recovery Condition I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A
2. Device mounted on an epoxy-glass printed-circuit board, 1.5mm thick; thickness of Cu-layer≥40 μ m

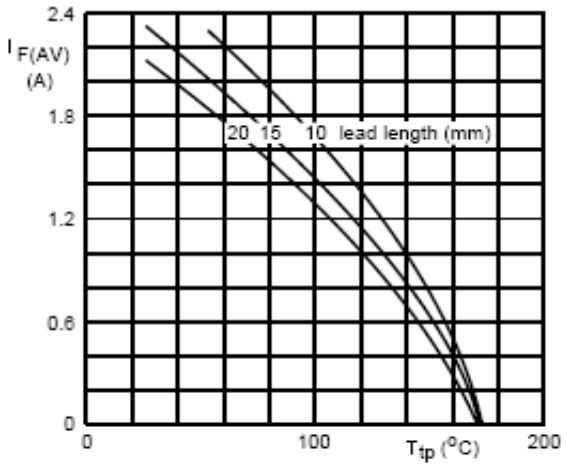


Fig.1 Maximum average forward current as a function of tie-point temperature (including losses due to reverse leakage).

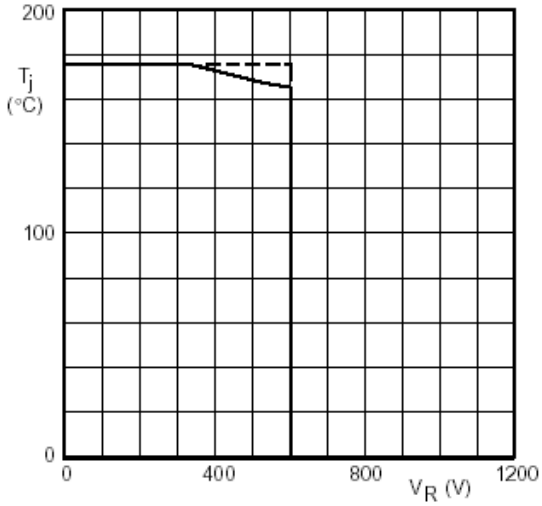


Fig.2 Maximum permissible junction temperature as a function of reverse voltage.

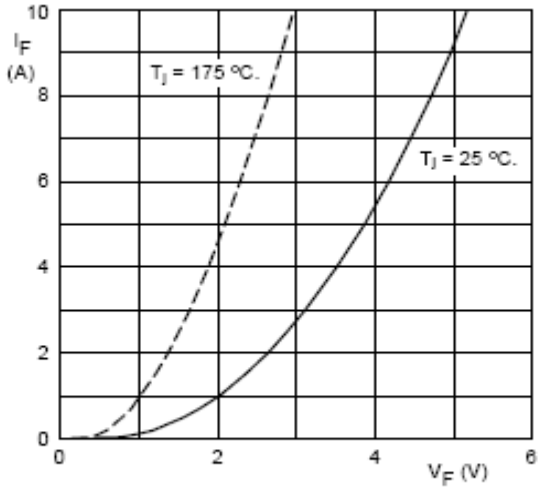


Fig.3 Forward current as a function of forward voltage; maximum values.

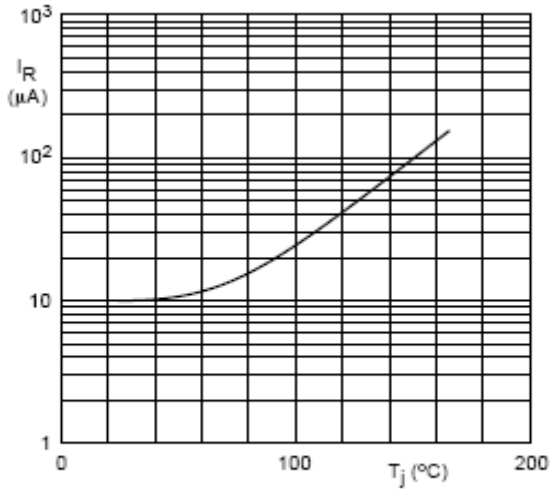


Fig.4 Reverse current as a function of junction temperature; maximum values.

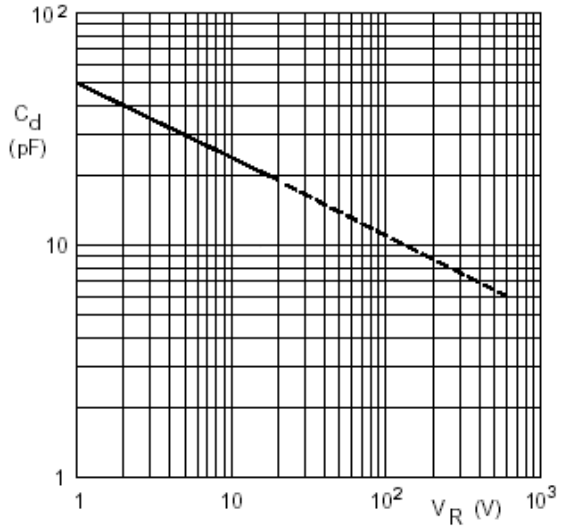


Fig.5 Diode capacitance as a function of reverse voltage; typical values.