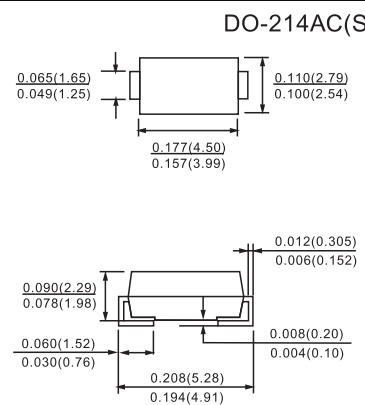


FEATURES

- Glass passivated
- High maximum operating temperature
- Ideal for surface mount automotive applications
- Low leakage current
- Excellent stability
- Guaranteed avalanche energy absorption capability
- UL 94V-O classified plastic package
- Shipped in 12 mm embossed tape
- Marking: cathode, date code, type code
- Easy pick and place.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

LIMITING VALUES

SYMBOL	PARAMETER	CONDITIONS	MIN.	MAX.	UNIT
V_{RRM}	repetitive peak reverse voltage				
	BYG26D		–	200	V
	BYG26G		–	400	V
V_R	continuous reverse voltage				
	BYG26D		–	200	V
	BYG26G		–	400	V
V_{RMS}	root mean square voltage				
	BYG26D		–	140	V
	BYG26G		–	280	V
$I_{F(AV)}$	average forward current	averaged over any 20 ms period; $T_{tp} = 85\text{ }^\circ\text{C}$; see Fig.2	–	1	A
	I_{FSM}	non-repetitive peak forward current	–	15	A
T_{stg}	storage temperature		–65	+175	$^\circ\text{C}$
T_j	junction temperature	See Fig.3	–65	+175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	TYP.	MAX.	UNIT
V_F	forward voltage	$I_F = 1\text{ A}$; see Fig.4	–	3.6	V
I_R	reverse current	$V_R = V_{RRMmax}$; see Fig.5	–	5	μA
		$V_R = V_{RRMmax}$; $T_j = 165\text{ }^\circ\text{C}$; see Fig.5	–	100	μA
t_{rr}	reverse recovery time	when switched from $I_F = 0.5\text{ A}$ to $I_R = 1\text{ A}$; measured at $I_R = 0.25\text{ A}$; see Fig.9	–	30	ns
C_d	diode capacitance	$V_R = 4\text{ V}$; $f = 1\text{ MHz}$; see Fig.6	7	–	pF

RATINGS AND CHARACTERISTIC CURVES

BYG26D THRU BYG26J

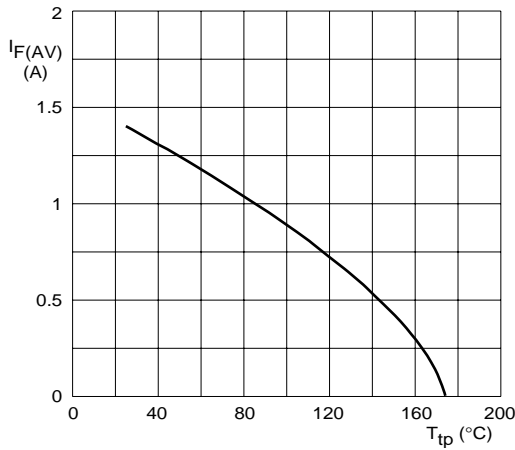


Fig.1 Maximum permissible average forward

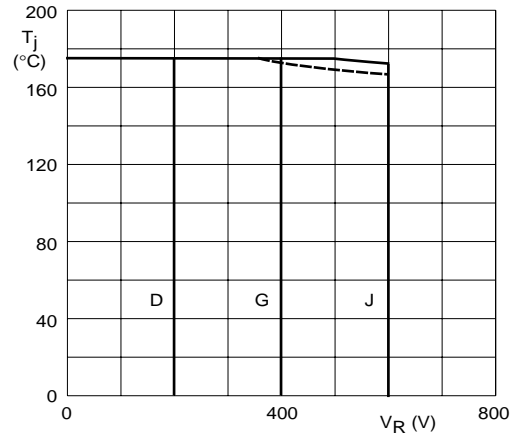


Fig. 2 Maximum permissible junction temperature

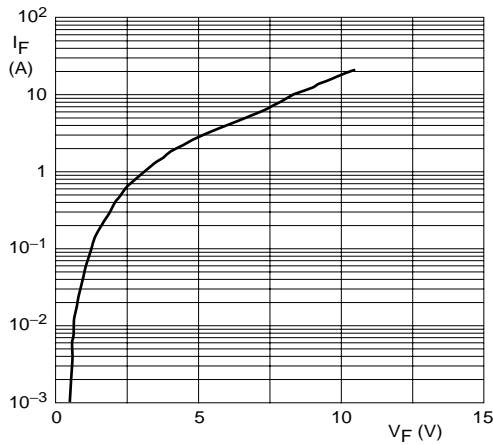


Fig.3 Forward current as a function of forward

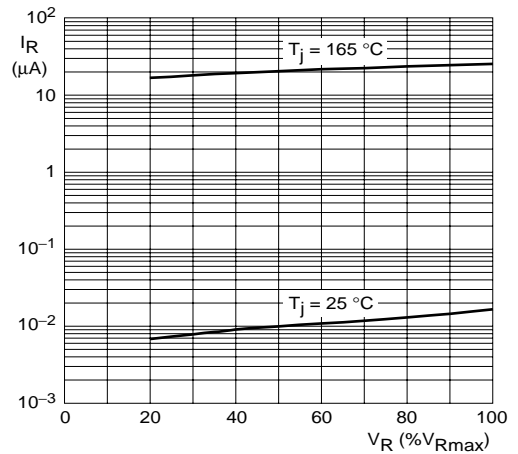


Fig.4 Reverse current as a function of reverse voltage; typical values.

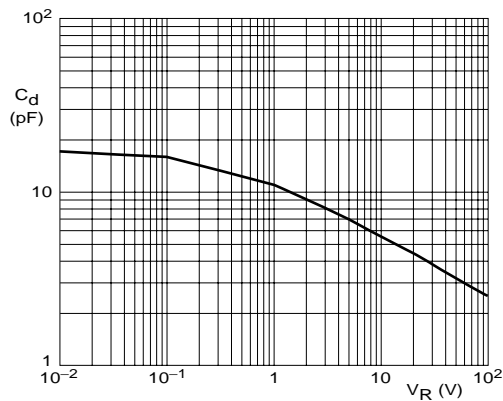


Fig.5 Diode capacitance as a function of reverse voltage; typical values.

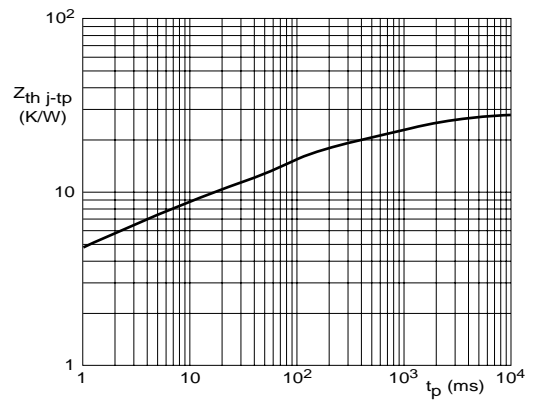


Fig.6 Transient thermal impedance as a function of pulse width.