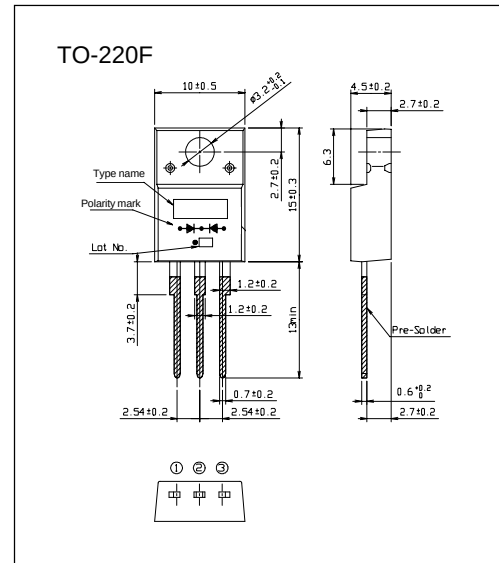


YG838C03R (38A)

(30V / 38A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



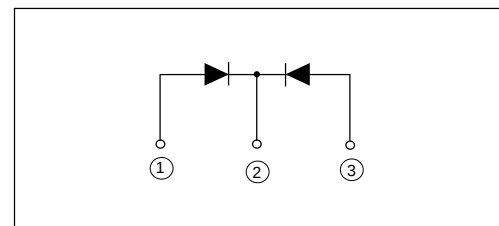
■ Features

- Low V_F
- Super high speed switching
- High reliability by planer design

■ Applications

- High speed power switching

■ Connection diagram



■ Maximum ratings and characteristics

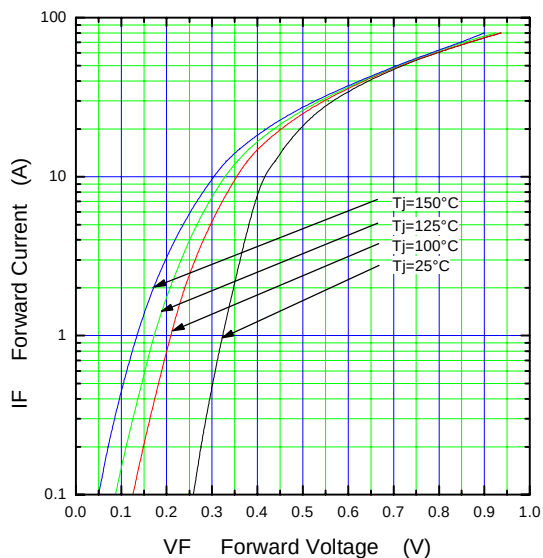
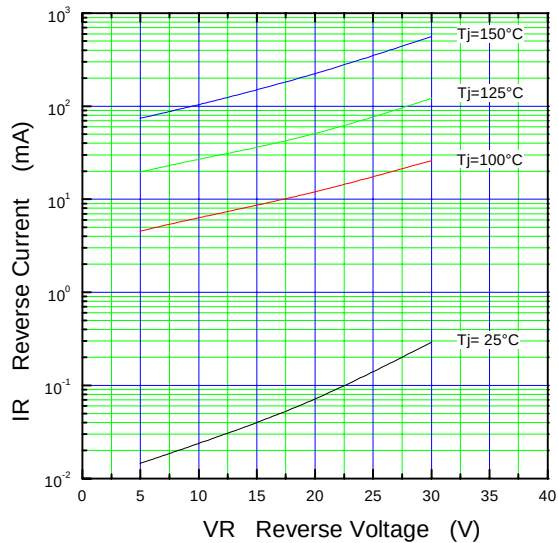
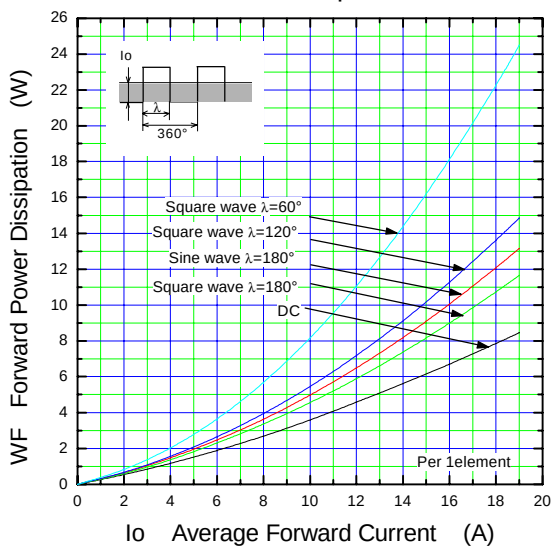
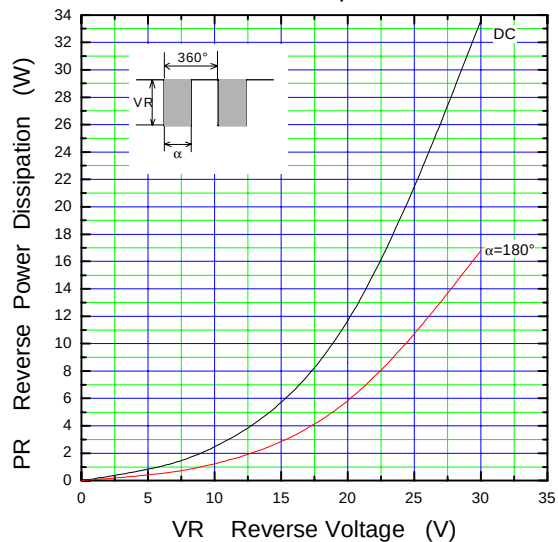
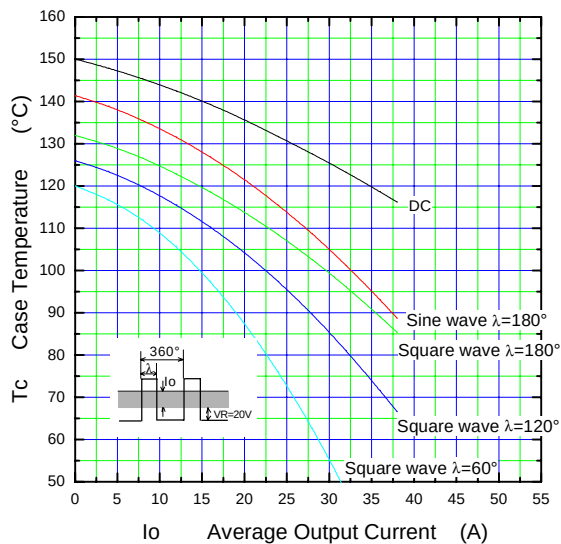
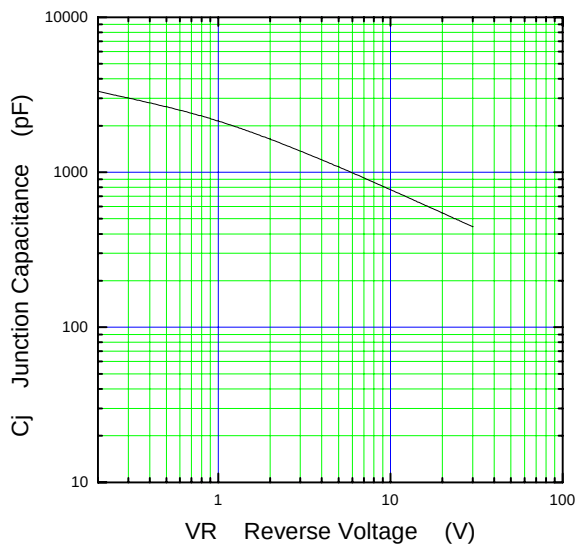
- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		30	V
Repetitive peak surgereverse voltage	V_{RSM}	$t_w=500ns$, duty=1/40	35	V
Average output current	I_o	Square wave, duty=1/2 $T_c=85^{\circ}C$	38*	A
Surge current	I_{FSM}	Sine wave 10ms	200	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

* Average forward current of centertap full wave connection

- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=12.5A$	0.45	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	10	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^{\circ}C/W$

■ Characteristics**Forward Characteristic (typ.)****Reverse Characteristic (typ.)****Forward Power Dissipation****Reverse Power Dissipation****Current Derating (I_o - T_c)****Junction Capacitance Characteristic (typ.)**

f : conduction angle of forward current for each rectifier element
 I_o : Output current of center-tap full wave connection

