

TP865C12R (20A)

(120V / 20A)

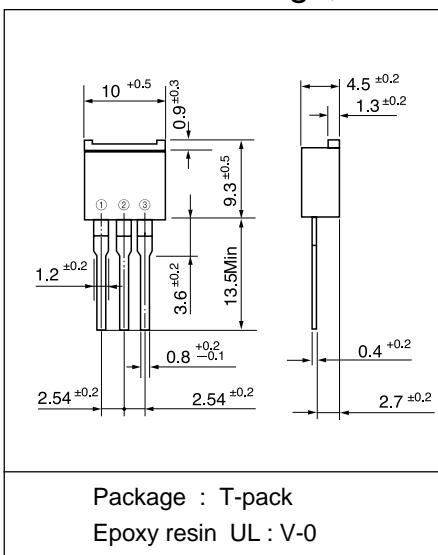
[0401]

High Voltage Schottky barrier diode

■ Major characteristics

Characteristics	TP865C12R	Units	Condition
V _{RRM}	120	V	
V _F	0.88	V	T _c =25°C MAX.
I _O	20	A	

■ Outline drawings, mm



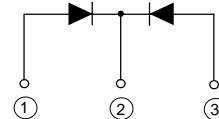
Package : T-pack
Epoxy resin UL : V-0

■ Features

- Low VF
- High Voltage
- Center tap connection
- High frequency operation
- DC-DC converters
- AC adapter

■ Applications

■ Connection diagram



■ Maximum ratings and characteristics

- Absolute maximum ratings (at T_c=25°C Unless otherwise specified)

Item	Symbol	Conditions	Rating	Unit
Repetitive peak surge reverse voltage	V _{RSM}	t _w =500ns, duty=1/40	120	V
Repetitive peak reverse voltage	V _{RRM}		120	V
Average output current	I _O	Square wave, duty=1/2 T _c =126°C	20 *	A
Non-repetitive surge current **	I _{FSM}	Sine wave 10ms 1shot	150	A
Operating junction temperature	T _j		+150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Out put current of center tap full wave connection

**Rating per element

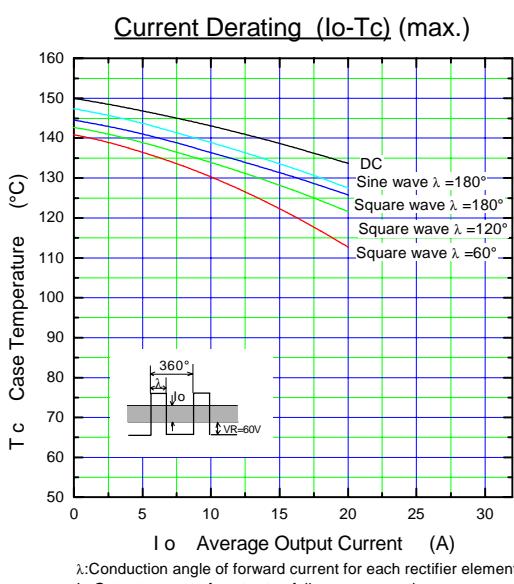
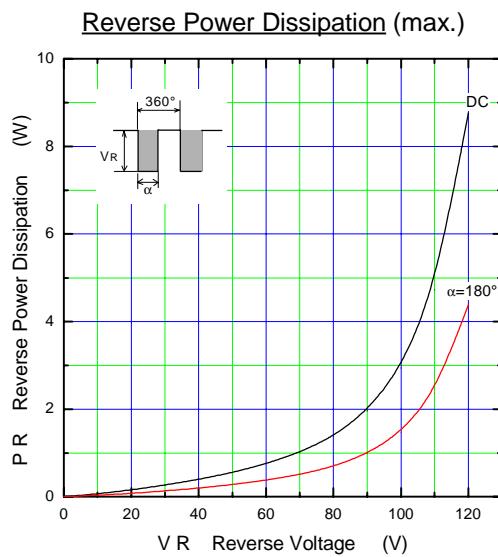
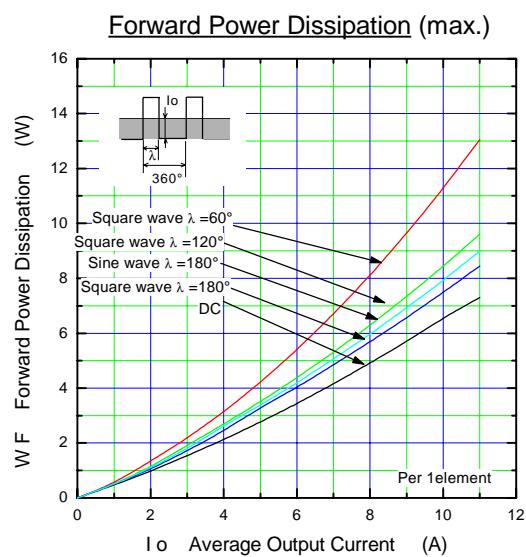
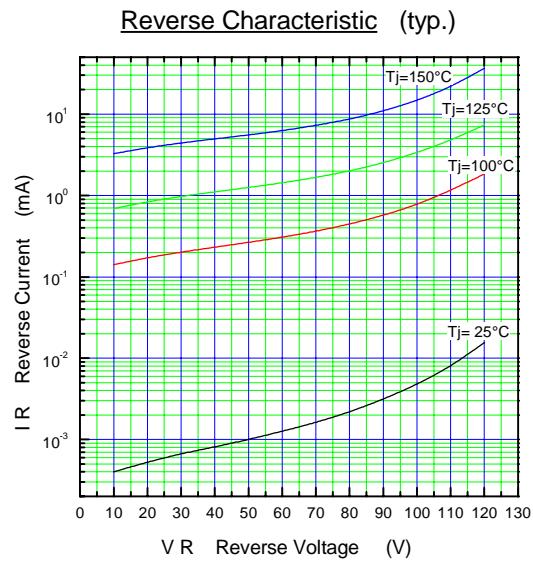
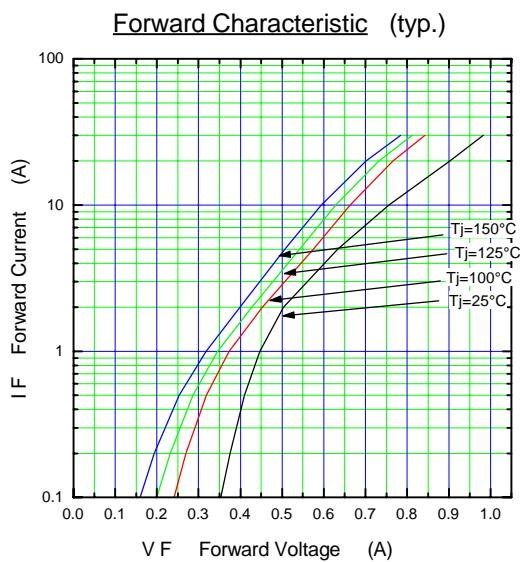
- Electrical characteristics (at T_c=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _F	I _{FM} =10A	0.88	V
Reverse current	I _R	V _R =V _{RRM}	150	μA
Thermal resistance	R _{th(j-c)}	Junction to case	1.25	°C/W

- Mechanical characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N·m
Approximate mass		2	g

■ Characteristics



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

