

## Schottky Rectifier

25CTQ035S

## FEATURES

- Low forward voltage drop
- High frequency operation

## APPLICATIONS

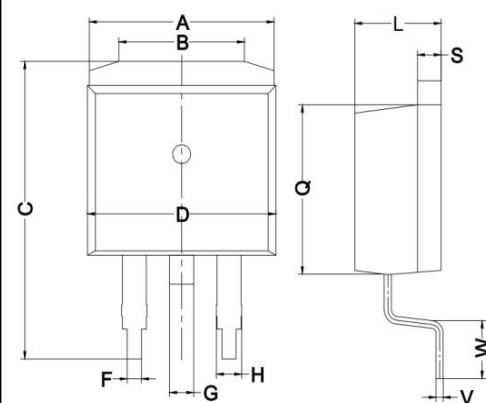
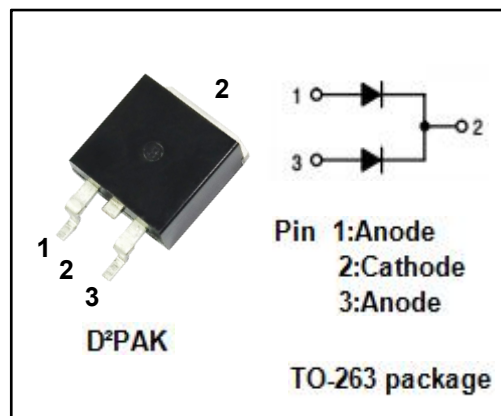
- Switching power
- Converters
- Freewheeling diodes
- Reverse battery protection

ABSOLUTE MAXIMUM RATINGS( $T_a=25^{\circ}\text{C}$ )

SYMBOL	PARAMETER	VALUE	UNIT
$V_{RRM}$	Peak Repetitive Reverse Voltage	35	V
$I_{F(AV)}$	Average Rectified Forward Current	2*15	A
$I_{FSM}$	Non-repetitive Peak Surge Current $t_p = 5 \mu\text{s}$ sine	990	A
$T_J$	Junction Temperature	-55~150	$^{\circ}\text{C}$
$T_{stg}$	Storage Temperature Range	-55~150	$^{\circ}\text{C}$

## THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j-c}$	Thermal Resistance, Junction to Case	1.63	$^{\circ}\text{C/W}$



DIM	mm		
	MIN	TYP.	MAX
A	9.80	10.00	10.20
B	6.60	6.70	6.80
C	15.10	15.20	15.30
D	9.60	9.80	10.00
F	0.70	0.80	0.90
G	1.26	1.28	1.30
H	1.20	1.33	1.45
L	4.40	4.50	4.60
Q	9.20	9.25	9.30
S	1.25	1.30	1.35
V	0.40	0.50	0.60
W	2.60	2.70	2.80

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## ELECTRICAL CHARACTERISTICS

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$V_F$	Maximum Forward Voltage Drop	$I_F = 15A, T_J = 25^\circ C$	0.56	V
		$I_F = 30A, T_J = 25^\circ C$	0.71	
		$I_F = 15A, T_J = 125^\circ C$	0.50	
		$I_F = 30A, T_J = 125^\circ C$	0.64	
$I_R$	Maximum Instantaneous Reverse Current	Rated DC Voltage, $T_J = 25^\circ C$	1.75	mA
		Rated DC Voltage, $T_J = 125^\circ C$	70	

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