

Schottky Rectifier

25CTQ045S

FEATURES

- Low forward voltage drop
- High frequency operation

APPLICATIONS

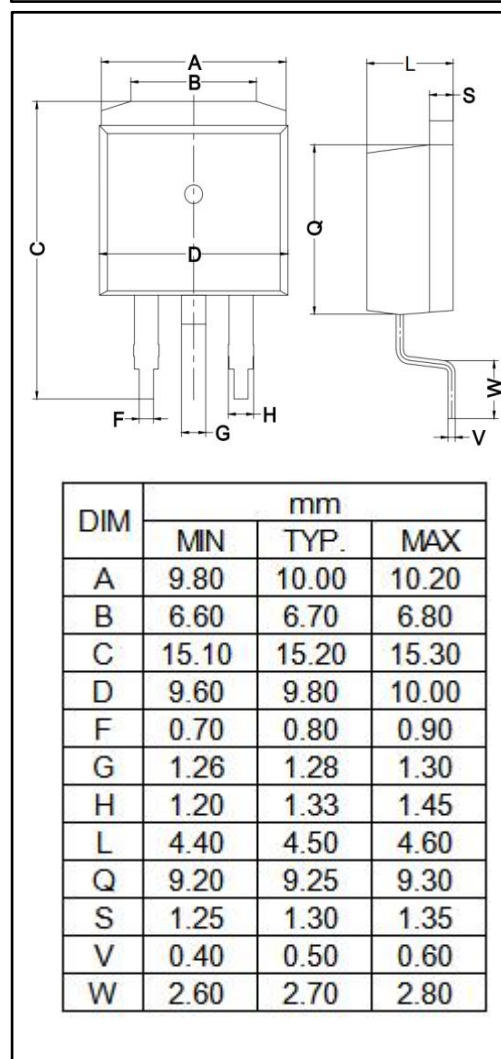
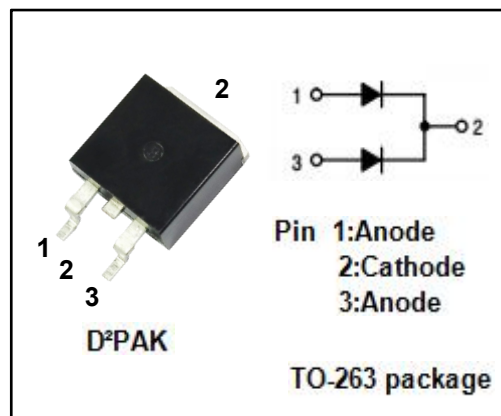
- Switching power
- Converters
- Freewheeling diodes
- Reverse battery protection

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

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM}	Peak Repetitive Reverse Voltage	45	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	$^{\circ}\text{C/W}$



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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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