

Ultrafast Recovery Diode

FFP30S60S

FEATURES

- Hyperfast Soft Recovery
- Low on-state losses
- Low thermal resistance
- Avalanche Energy Rated

APPLICATIONS

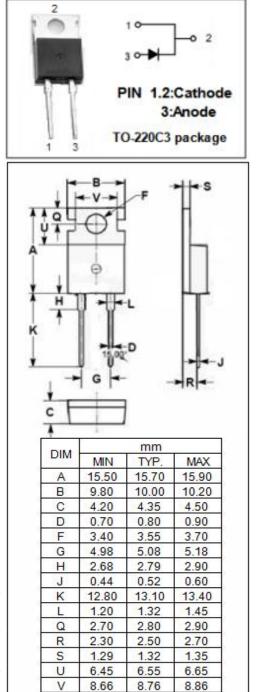
- General Purpose
- Free Wheeling Diode

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
Vrrm Vrwm Vr	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
lf(AV)	Average Rectified Forward Current @Tc=103°C	30	A
IFSM	non-repetitive peak forward current 60Hz Single Half-Sine Wave	300	A
TJ	Junction Temperature	-65~150	°C
T _{stg}	Storage Temperature Range	-65~150	°C

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	R _{th j-c} Thermal Resistance,Junction to Case		°C/W





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SYMBOL	PARAMETER	CONDITIONS	Min	Тур	МАХ	UNIT		
VF	Maximum Instantaneous Forward Voltage	I ⊧= 5A ;Tj=25°C	-	2.1	2.6	V		
		I ⊢= 5A ;Tj=125℃	-	1.6	-			
I _R	Maximum Instantaneous Reverse Current	V R= V _{RWM} ;Тj=25℃	-	-	100	μ Α		
		V _R = V _{RWM;} Тj=125℃	-	-	500			
t _{rr}	Maximum Reverse Recovery Time	$I_F = 1A; V_R = 30 V;$	-	25	35	ns		
		$dI_{\rm F}/dt = 100 {\rm A}/{\rm \mu s};$						

ELECTRICAL CHARACTERISTICS(Ta=25°C) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

Product Disclaimer

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