

SEMICONDUCTOR TECHNICAL DATA

S10A2CIC

SUPER FAST RECOVERY RECTIFIER DIODE

SWITCHING MODE POWER SUPPLY APPLICATION CONVERTER & CHOPPER APPLICATION.

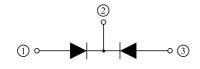
FEATURES

- · Super-Fast Recovery Time for High Efficiency.
- · Low Forward Voltage Drop, High Current Capability, and Low Power Loss.

APPLICATION

- · Switching Power Supply.
- · Home Appliances, Office Equipment.
- · Telecommunication, Factory Automation.

POLARITY



MILLIMETERS 10.0±0.3 15.0 ± 0.3 2.70 ± 0.3 D 0.76±0.09/-0.05 Φ 3.2+0.2 3.0 ± 0.3 12.0 ± 0.3 0.5+0.1/-0.05 Н 13.6±0.5 $3.7\!\pm\!0.2$ 1.2+0.25/-0.1 M 1.5±0.25/-0.1 2.54 ± 0.1 Р 6.8 ± 0.1 0 4.5 ± 0.2 R 2.6 ± 0.2 0.5 Typ 1. ANODE 2. CATHODE

MAXIMUM RATINGS (Ta=25

POLARITY ②		1/2			1. ANODE 2. CATHODE 3. ANODE
	TO-220IS				
MAXIMUM RATINGS (Ta=25	3)		ha	By	
CHARACTERISTIC	SYMBOL	RATING	Un		
Maximum Reverse Voltage	V _{RM}	200	v		
Average Output Rectified Current (Tc=125°C) (Note1)	I _O	10	A		4800
Peak One Cycle Surge Forward Current (Non-Repetitive)	I _{FSM}	50 (50Hz)	A		
		60 (60Hz)	A		
Junction Temperature	T _j	-40~150			~//
Storage Temperature Range	T_{stg}	-40~150			,
(Note1): Average forward current of c	entertap full w	ave connection	1.	-	

(Note1): Average forward current of centertap full wave connection.

ELECTRICAL CHARACTERISTICS (Ta=25)

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CHARACTERISTIC SYMBOL		TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Peak Forward Voltage	(Note2)	$V_{\rm FM}$	I _{FM} =5A	-	-	0.98	V
Reverse Current	(Note2)	I_{RM}	V _{RM} =Rated	-	-	10	μA
Reverse Recovery Time	(Note2)	t _{rr}	$I_F = I_R = 100 \text{mA}$	-	-	100	ns
Thermal Resistance	(Note2)	R _{th(j-c)}	Junction to Case	-	-	3.6	/W

(Note2): A Value of one cell.

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