

Schottky Barrier Rectifier

Dual Common Anode Schottky Rectifier

Package

TO-220F-3L

Features

- Low forward voltage drop and leakage current
- Low power loss and High efficiency
- High surge capability
- Dual common anode rectifier
- Full lead(Pb)-free component and RoHS compliant device

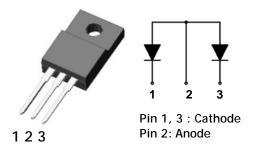
Marking

B20150PR

Ordering Information

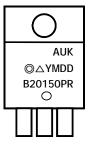
Part Number

SDB20150PR



TO-220F-3L

Marking Information



Column 1: Manufacturer Column 2: Production Information e.g.) ◎△YMDD -. ◎△: Factory Management Code -. YMDD: Date Code (Year, Month, Daily) Column 3: Device Code

Absolute maximum ratings (Tc=25°C unless otherwise noted)

Characteristic		Symbol	Rating	Unit	
Maximum repetitive reverse voltage Maximum working peak reverse voltage Maximum DC blocking voltage		V _{RRM} V _{RWM} V _R	150	V	
Maximum average forward rectified current	Per diode	I _{F(AV)}	10	А	
	Total device		20	А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load per diode		I _{FSM}	120	А	
Power dissipation		P _D	31	W	
Maximum operating junction temperature		TJ	150	°C	
Storage temperature range		T _{stg}	-45~150	°C	

Thermal Characteristics

Characteristic		Symbol	Value	Unit	
Maximum thermal resistance junction to case	Per diode	D	4.0	°C/W	
	Total device	$R_{th(J-C)}$	3.6	C7 W	

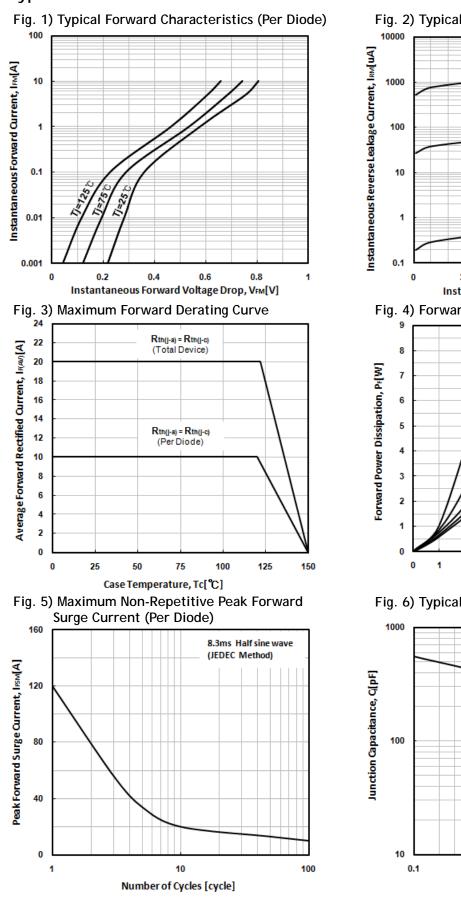
Electrical Characteristics (Tc=25°C unless otherwise noted)

Characteristic	Symbol	Test Condition		Min.	Тур.	Max.	Unit
Peak forward voltage drop	V _{FM} ⁽¹⁾	I _{FM} = 10A	TJ=22℃	-	0.80	0.88	V
			T _J =125℃	-	0.75	0.78	V
Reverse leakage current	I _{RM} ⁽²⁾	V _R = V _{RRM}	T _J =25℃	-	-	20	uA
			TJ=125℃	-	-	20	mA
Junction capacitance	CJ	$V_{R} = 4V_{DC}$, f=1MHz		-	220	-	pF

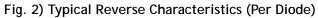
Note:

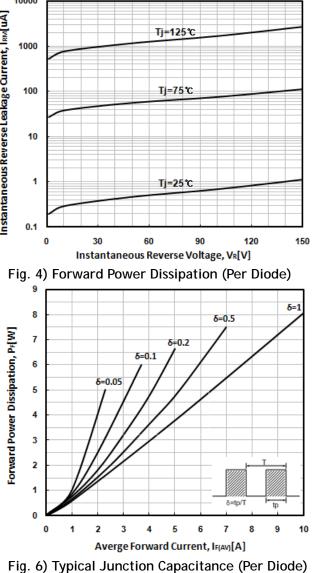
(1) Pulse test : $t_{P}{\leq}380us,$ Duty cycle ${\leq}2\%$

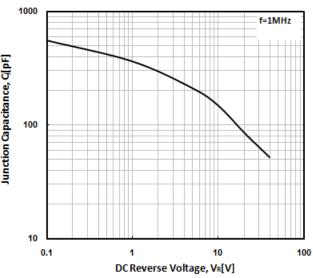
(2) Pulse test : $t_P \le 20ms$, Duty cycle $\le 2\%$



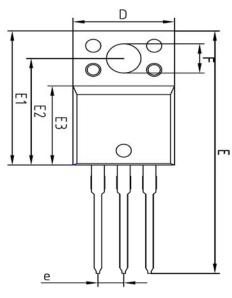
Typical Electrical Characteristic Curves

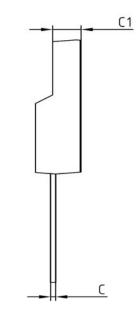






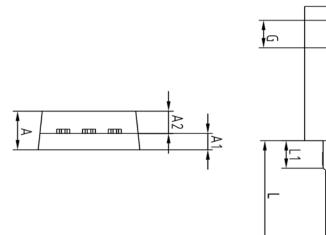
Package Outline Dimensions (Unit: mm)

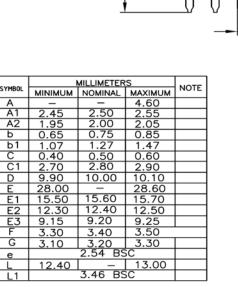




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