



20A, 20V - 150V Dual Common Cathode Schottky Rectifiers

FEATURES

- Low power loss, high efficiency
- Guardring for overvoltage protection
- High surge current capability
- UL Recognized File # E-326243
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

MECHANICAL DATA

Case: TO-247AD (TO-3P)

Molding compound, UL flammability classification rating 94V-0

Part no. with suffix "H" means AEC-Q101 qualified

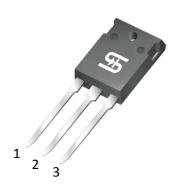
Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test

Polarity: As marked

Mounting torque: 10 in-lbs maximum

Weight: 5.6 g (approximately)







DINI 4 O	
PIN 1 O	PIN 2
	-0
PIN 3 O-	CASE
FIN 30	

TO-247AD (TO-3P)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)										
	0) (1 4 7 0 1	SR	SR	SR	SR	SR	SR	SR	SR	
PARAMETER	SYMBOL	2020 PT	2030 PT	2040 PT	2050 PT	2060 PT	2090 PT	20100 PT	20150 PT	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC blocking voltage		20	30	40	50	60	90	100	150	V
Maximum average forward rectified current	I _{F(AV)}	20							Α	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	200						Α		
Maximum instantaneous forward voltage (Note 1) I _F = 10 A	V _F	0.55 0.70 0.92			1.02	V				
T _J =25°C		0.5				0.1				
Maximum reverse current @ rated V _R T _J =100°C	I_R	15		10		-			mA	
T _J =125°C				-				5		
Typical thermal resistance R ₀		1.5					°C/W			
Operating junction temperature range	T_J	- 55 to +125 - 55 to +150						°C		
Storage temperature range	T_{STG}	- 55 to +150						°C		

Note 1: Pulse test with PW=300µs, 1% duty cycle

Document Number: DS_D1309027



ORDERING INFORMATION							
PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX ^(*)	PACKAGE	PACKING		
SR20xxPT (Note 1)	Н	C0	G	ITO-220AB	50 / Tube		

Note 1: "xx" defines voltage from 20V (SR2020PT) to 150V (SR20150PT)

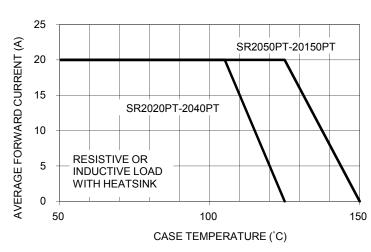
^{*:} Optional available

EXAMPLE								
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION			
SR2060PTHC0G	SR2060PT	Н	C0	G	AEC-Q101 qualified Green compound			

RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE



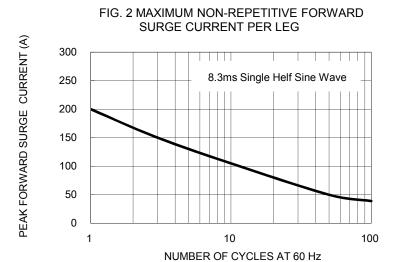
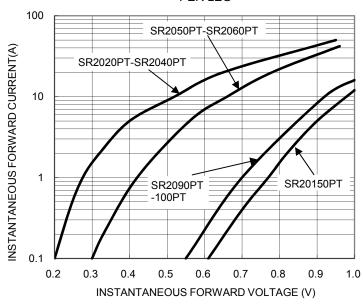


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG



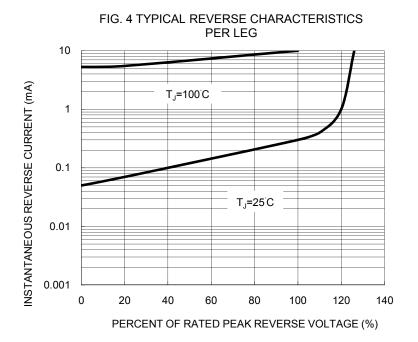




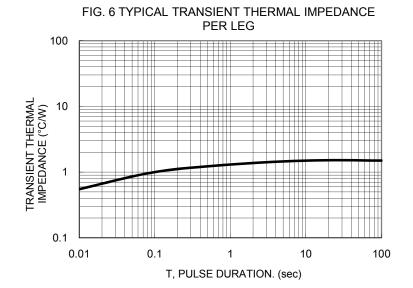


FIG. 5 TYPICAL JUNCTION CAPACITANCE PER LEG

10000
SR2020PT-SR2040PT
Vsig=50mVp-p

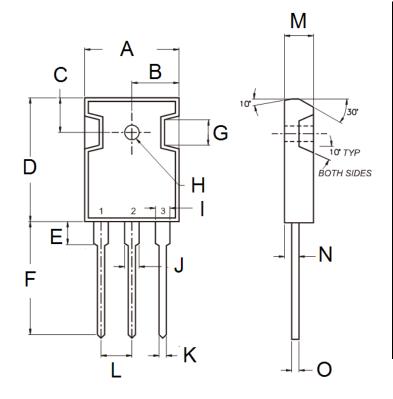
SR2050PT-SR2060PT
SR2090PT-SR20150PT

100
0.1
1
10
100
REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS

TO-247AD (TO-3P)



DIM.	Unit	(mm)	Unit (inch)		
DIIVI.	Min Max		Min	Max	
Α	15.90	16.40	0.626	0.646	
В	7.90	8.20	0.311	0.323	
С	5.70	6.20	0.224	0.244	
D	20.80	21.30	0.819	0.839	
Е	3.50	4.10	0.138	0.161	
F	19.70	20.20	0.776	0.795	
G	-	4.30	-	0.169	
Н	2.90	3.40	0.114	0.134	
I	1.93	2.18	0.076	0.086	
J	2.97	3.22	0.117	0.127	
K	1.12	1.22	0.044	0.048	
L	5.20	5.70	0.205	0.224	
М	4.90	5.16	0.193	0.203	
N	2.70	3.00	0.106	0.118	
0	0.51	0.76	0.020	0.030	

MARKING DIAGRAM



P/N = Marking Code
G = Green Compound
YWW = Date Code
F = Factory Code





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