



Dual Common Cathode Schottky Rectifier

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 definition



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

Molding compound, UL flammability classification rating 94V-0 Base P/N with suffix "G" on packing code - halogen-free Base P/N with prefix "H" on packing code - AEC-Q101 qualified **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 1A whisker test

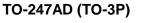
with prefix "H" on packing code meet JESD 201 class 2 whisker test

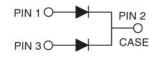
Polarity: As marked

Mounting torque: 10 in-lbs maximum **Weight:** 6.1 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)									
PARAMETER	SYMBOL	SR 4020	SR 4030	SR 4040	SR 4050	SR 4060	SR 4090	SR 40100	UNIT
		PT	PT	PT	PT	PT	PT	PT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	90	100	V
Maximum average forward rectified current	I _{F(AV)}	40					Α		
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	400					А		
Maximum instantaneous forward voltage (Note 1) I _F = 20 A	V _F	0.55 0.70 0.90			90	V			
Maximum reverse current @ rated VR T _J =25 ℃		1.0 0.5					.5		
T _J =100 ℃	I _R	30		20		-		mA	
T _J =125 ℃		- 10				0			
Typical thermal resistance	$R_{ heta JC}$	1.2			°C/W				
Operating junction temperature range	T _J	- 55 to +125 - 55 to +150				οС			
Storage temperature range	T _{STG}	- 55 to +150					оС		

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



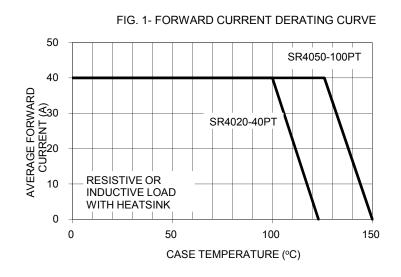
ORDERING INFORMATION						
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
SR40xxPT (Note 1)	Prefix "H"	C0	Suffix "G"	TO-3P	30 / Tube	

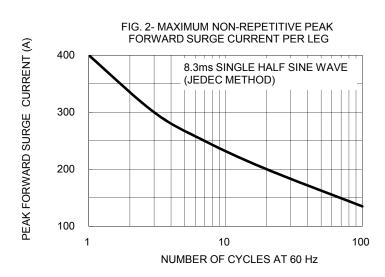
Note 1: "xx" defines voltage from 20V (SR4020PT) to 100V (SR40100PT)

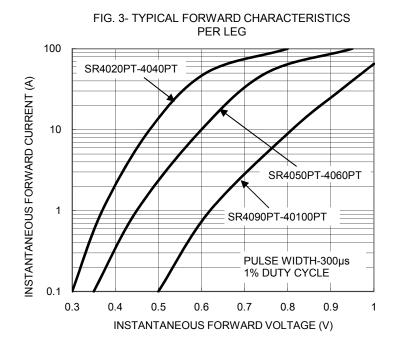
EXAMPLE							
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION		
SR4060PT C0	SR4060PT		C0				
SR4060PT C0G	SR4060PT		C0	G	Green compound		
SR4060PTHC0	SR4060PT	Н	C0		AEC-Q101 qualified		

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)







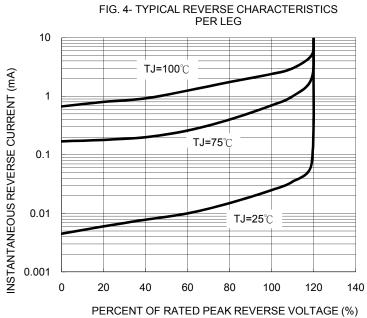
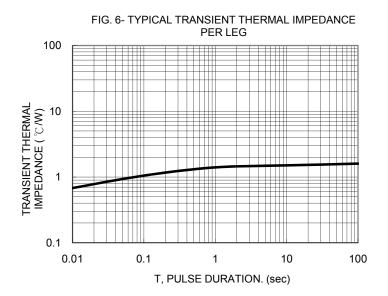


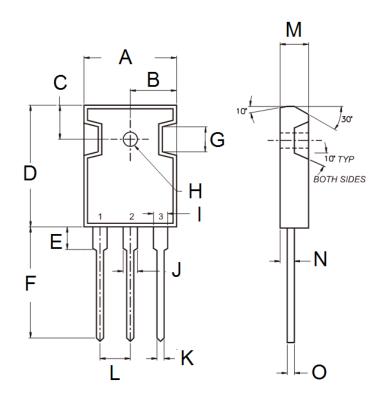


FIG. 5- TYPICAL JUNCTION CAPACITANCE PER LEG

10000
SR4020PT-4040PT
SR4050PT-40100PT
0.1 1 10 100
REVERSE VOLTAGE (V)



PACKAGE OUTLINE DIMENSIONS



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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