



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

MECHANICAL DATA

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

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

Meet JESD 201 class 1A whisker test

Polarity: As marked

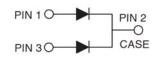
Mounting torque: 10 in-lbs maximum

Weight: 5.6 g (approximately)











MAXIMUM RATINGS AND ELECTRICAL C	HARACTER	ISTICS	(T _A =25°	unless	otherwi	se noted)			
		SR	SR	SR	SR	SR	SR	SR	SR	
PARAMETER	SYMBOL	1620	1630	1640	1650	1660	1690	16100	16150	UNIT
		PT	PT	PT	PT	PT	PT	PT	PT	
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	V_{DC}	20	30	40	50	60	90	100	150	V
Maximum average forward rectified current	I _{F(AV)}	16				Α				
Peak forward surge current, 8.3 ms single half sine-way superimposed on rated load	/e I _{FSM}	200 A					Α			
Maximum instantaneous forward voltage (Note 1) I_F = 8 A	V _F		0.55		0.70 0.90 1.0		1.00	V		
Maximum reverse current @ rated VR T _J =25 ℃		0.5				0.1				
T _J =100 ℃	I _R	15		10		-			mA	
T _J =125 ℃		-			5					
Typical thermal resistance	$R_{ heta JC}$	3.0				°C/W				
Operating junction temperature range	T _J	- 55 to +125 - 55 to +150			οС					
Storage temperature range	T _{STG}	- 55 to +150			οС					
Note 4. Dules to the DW-200 and 40/ duty and										

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

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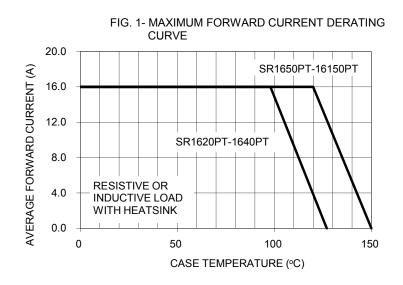
ORDERING INFORMATION					
PART NO.	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING	
SR16xxPT (Note 1)	C0	Suffix "G"	TO-3P	30 / Tube	

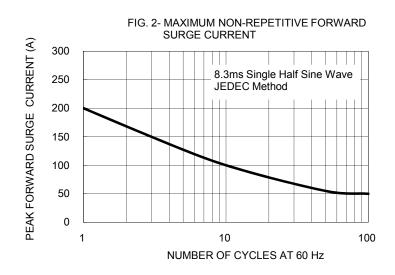
Note 1: "xx" defines voltage from 20V (SR1620PT) to 150V (SR16150PT)

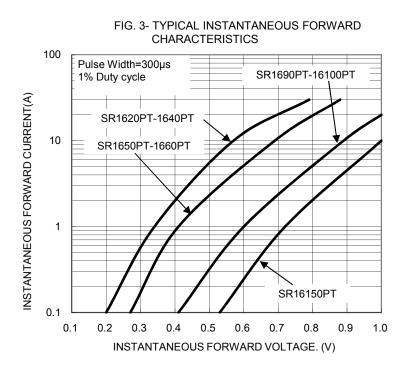
EXAMPLE							
PREFERRED P/N	PART NO.	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION			
SR1660PT C0	SR1660PT	C0					
SR1660PT C0G	SR1660PT	C0	G	Green compound			
SR1660PTHC0	SR1660PT	C0		AEC-Q101 qualified			

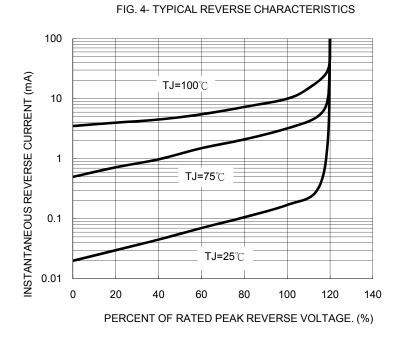
RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)





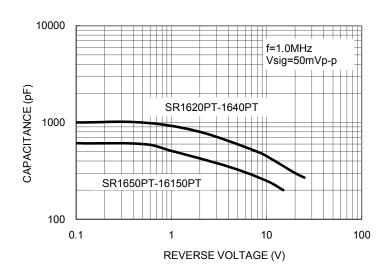


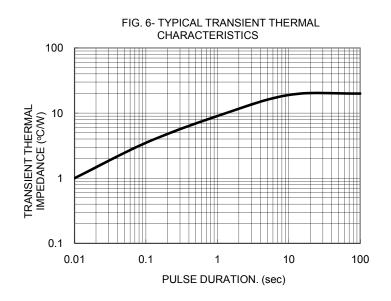


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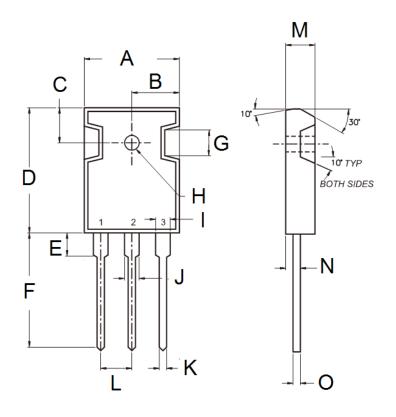


FIG. 5- TYPICAL JUNCTION CAPACITANCE





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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