

Dual Common Cathode Schottky Rectifier

FEATURES

- Low power loss, high efficiency
- Ideal for automated placement
- Guardring for overvoltage protection
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- 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

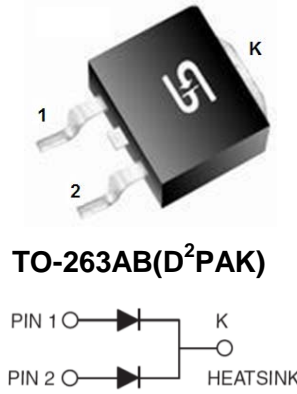
Case : TO-263AB(D²PAK)

Molding compound, UL flammability classification rating 94V-0
 Base P/N with suffix "G" on packing code - halogen-free, RoHS compliant
 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

Weight : 1.37 gram (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)											
PARAMETER	SYMBOL	SRS 1020	SRS 1030	SRS 1040	SRS 1050	SRS 1060	SRS 1090	SRS 10100	SRS 10150	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	V _{DC}	20	30	40	50	60	90	100	150	V	
Maximum average forward rectified current	I _{F(AV)}	10								A	
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	120								A	
Maximum instantaneous forward voltage (Note 1) IF= 5 A	V _F	0.55			0.70		0.90		1.00	V	
Maximum reverse current @ rated VR T _J =25 °C T _J =100 °C T _J =125 °C	I _R	0.5					0.1				mA
		15			10		-				
		-							5		
Typical thermal resistance	R _{θJC}	2								°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=300u sec, 1% duty cycle

ORDERING INFORMATION					
PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	PACKAGE	PACKING
SRS10xx (Note 1)	Prefix "H"	RN	Suffix "G"	D ² PAK	800 / 13" Paper reel
		C0		D ² PAK	50 / Tube

Note 1: "xx" defines voltage from 20V (SRS1020) to 150V (SRS10150)

EXAMPLE					
PREFERRED P/N	PART NO.	AEC-Q101 QUALIFIED	PACKING CODE	GREEN COMPOUND CODE	DESCRIPTION
SRS1060 RN	SRS1060		RN		
SRS1060 RNG	SRS1060		RN	G	Green compound
SRS1060HRN	SRS1060	H	RN		AEC-Q101 qualified

RATINGS AND CHARACTERISTICS CURVES

(TA=25°C unless otherwise noted)

FIG. 1 FORWARD CURRENT DERATING CURVE

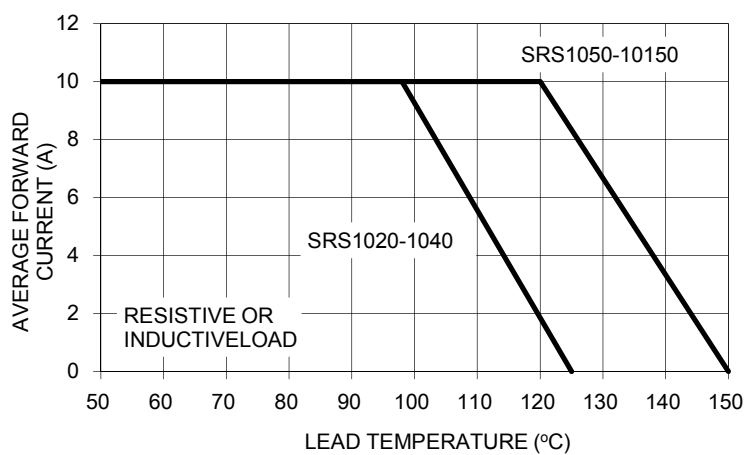


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

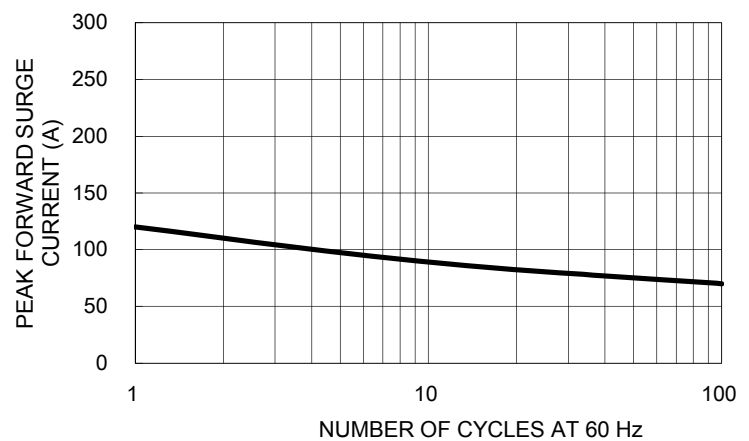


FIG. 3 TYPICAL FORWARD CHARACTERISTICS

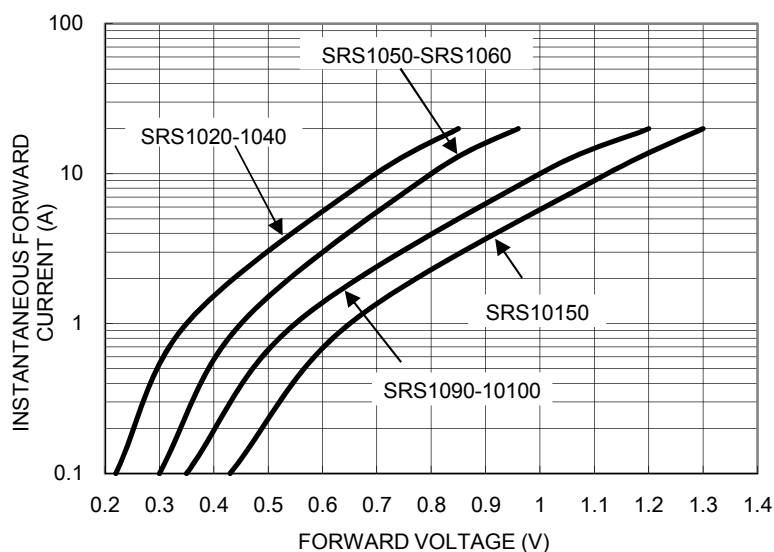


FIG. 4 TYPICAL REVERSE CHARACTERISTICS

