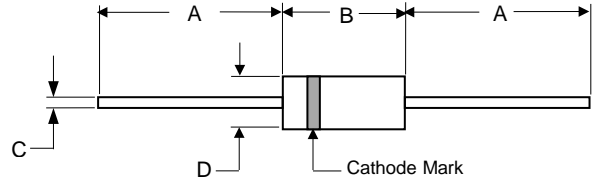


Features

- * Low forward voltage drop
- * Low power loss, high efficiency
- * Guardring for overvoltage protection
- * High surge current capability
- * Ultra high speed switching application



RoHS
COMPLIANT



DO-201AD				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	1.000	---	25.40	---
B	0.283	0.378	7.20	9.60
C	0.047	0.051	1.20	1.30
D	0.189	0.209	4.80	5.30

Mechanical Data

- * Case: DO-201AD
- * Molding compound, UL flammability classification rating 94V-0
- * Terminal: Matte tin plated leads, solderable per JESD22-B102
- * Weight: 1.1 g (approximately)

Maximum Ratings and Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	SR 802	SR 803	SR 804	SR 845	SR 805	SR 806	SR 809	SR 810	SR 815	SR 820	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	45	50	60	90	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	21	28	31.5	35	42	63	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	45	50	60	90	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	8										A
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	150										A
Maximum instantaneous forward voltage (Note 1) @ 8 A	V _F	0.55			0.7		0.92		1.02			V
Maximum reverse current @ rated V _R	T _J =25 °C	0.5					0.1					mA
	T _J =100 °C	15			10		-					
	T _J =125 °C	-			-		5					
Voltage rate of change (Rated V _R)	dV/dt	10000										V/μs
Typical thermal resistance	R _{θJA}	40										°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

Ratings and Characteristic Curves

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

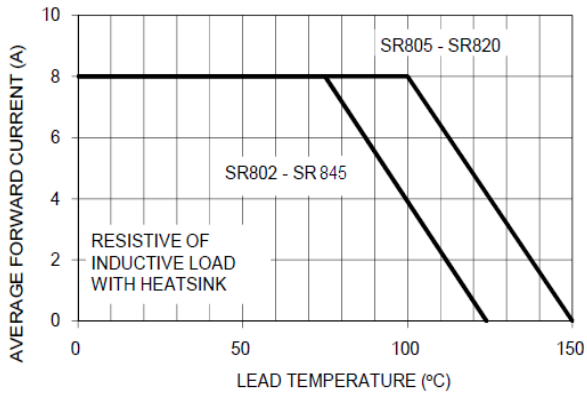


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

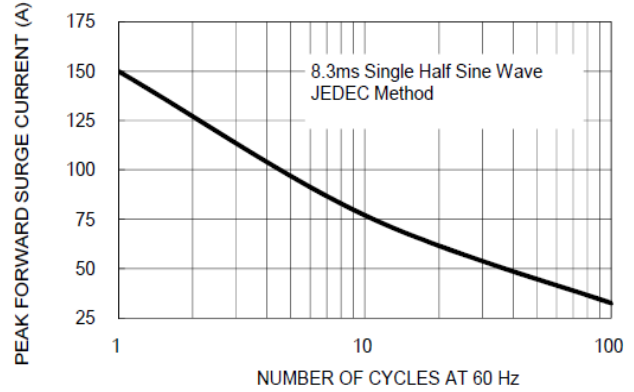


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

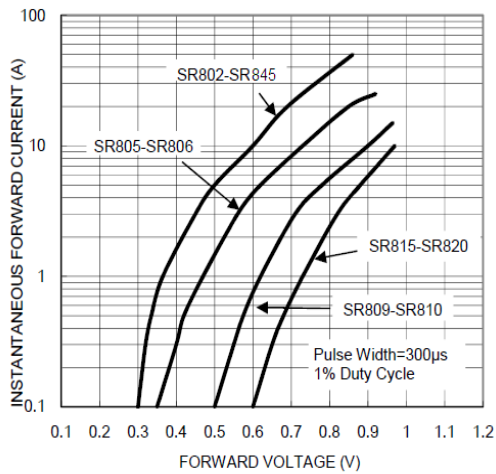


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

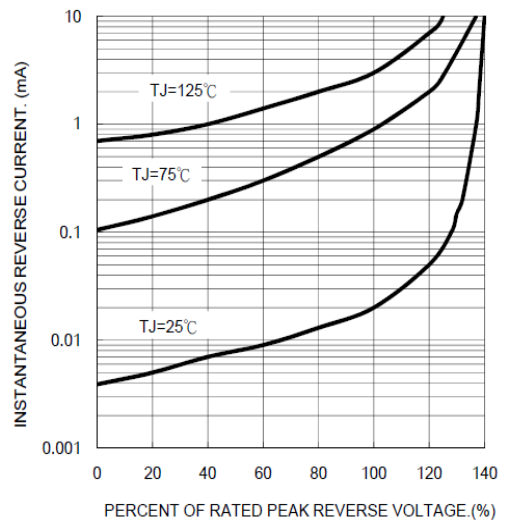


FIG. 5- TYPICAL JUNCTION CAPACITANCE

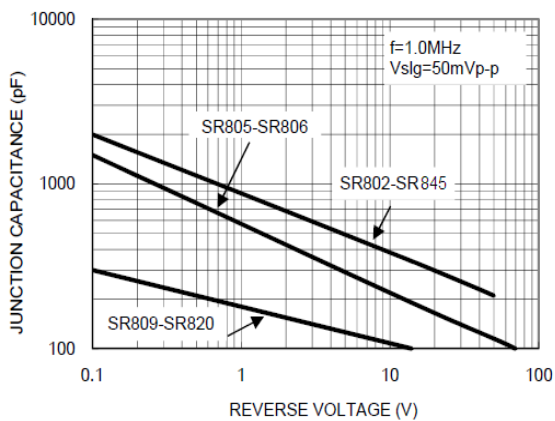
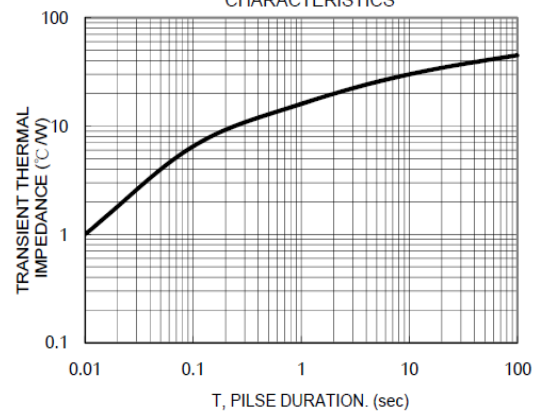


FIG. 6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS





SR802 THRU SR820 *Schottky Barrier Rectifiers*

Ordering Information

Part No.	Package	Packing Code	Packing
SR802 THRU SR820	DO-201AD	B05	500pcs/Bulk
SR802 THRU SR820	DO-201AD	A12	1200pcs/Ammo
SR802 THRU SR820	DO-201AD	R12	1200pcs/Reel

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