

SR12 THRU SR120

1A Leaded Type Schottky Barrier Rectifiers

Features Electrostatic discharge (ESI

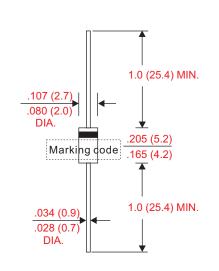
- Electrostatic discharge (ESD) test under IEC6100-4-2 standard >16KV(SR12~SR16). standard >10KV(SR110~SR120).
- Axial lead type devices for through hole design.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "G" indicates Halogen-free part, ex.SR12G.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-204AL / DO-41
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity : Color band denotes cathode end
- Weight : Approximated 0.33 gram

Outline

DO-41(DO-204AL)



Dimensions in inches and (millimeters)

Maximum ratings and electrical characteristics

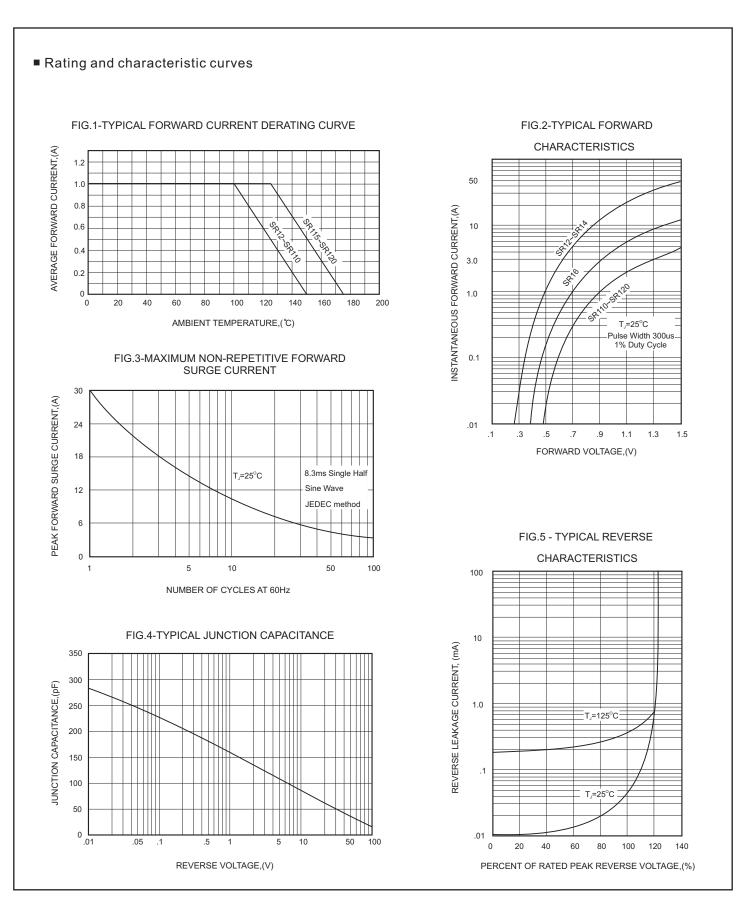
Rating at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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Parameter			Conditions			Symbol	MIN.	TYP.	MAX.	UNIT	
Forward rectified current			See Fig.1			I _o			1.0	А	
Forward surge current			8.3ms single half sine-wave superimposed on rate load (JEDEC method)			I _{FSM}			30	А	
Reverse current			$V_{R} = V_{RRM} T_{A} = 25^{\circ}C$			I _R			0.5	mA	
			$V_{R} = V_{RRM} T_{A} = 100^{\circ}C$						20		
Diode junction capacitance			f=1MHz and applied 4V DC reverse voltage			C		120		pF	
Thermal resistance			Junction to ambient			R _{eja}		88		°C/W	
Storage temperature						T _{stg}	-55		+175	°C	
Symbol	Marking code	Max. repetitive pea reverse voltag V _{RRM} (V)		Max. DC blocking voltage V _R (V)		. forward 01A, T _A = 2 V _F (V)		Oper	Operating temperature $T_J (°C)$		
SR12	SR12	20	14	20		0.45					
SR14	SR14	40	28	40		0.50			-50 ~ +150		
SR16	SR16	60	42	60	0.70			-50~+150			
SR110	SR110	100	70	100		0.81					
SR115	SR115	150	105	150	150		0.87		50 1175		
SR120	SR120	200	140	200		0.90			-50 ~ +175		
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