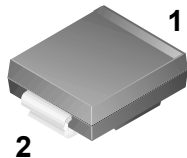

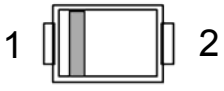



<p>RS3A-RS3M</p> <p>Features:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fast switching for high efficiency <input type="checkbox"/> Low forward voltage drop <input type="checkbox"/> Low reverse leakage current <input type="checkbox"/> High current capability <input type="checkbox"/> Diffused junction 	<div style="text-align: center;"> <p>DO-214AB (SMC)</p>  </div> <div style="text-align: right; margin-top: 10px;">  </div> <div style="text-align: right; margin-top: 10px;">  </div> <div style="text-align: right; margin-top: 10px;">  <p>1.Cathode 2. Anode</p> </div>
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Absolute Maximum Ratings & Electrical Characteristics (Ta=25°C unless otherwise noted)

Parameter	Symbol	RS 3A	RS 3B	RS 3D	RS 3G	RS 3J	RS 3K	RS 3M	Unit	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700		
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000		
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3							A	
Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	I_{FSM}	150								
Maximum Forward Voltage @ $I_F=3A$	V_F	1.3							V	
Maximum DC Reverse Current @ rated V_R	$T_a = 25^\circ C$	I_R							5	μA
	$T_a = 100^\circ C$								100	
Maximum Reverse Recovery Time @ $I_F = 0.5 A, I_R = 1 A, I_{rr} = 0.25 A$	T_{rr}	150				250	500		ns	
Typical Thermal Resistance	$R_{\theta JA}$	15							$^\circ C/W$	
Typical Junction Capacitance @ $V_R = 4.0 V, f = 1.0 MHz$	C_j	65				40			pF	
Operating Junction Temperature and Storage Temperature	T_J, T_{stg}	-55~+150							$^\circ C$	

Typical Characteristics

FIG. 1 – FORWARD CURRENT DERATING CURVE

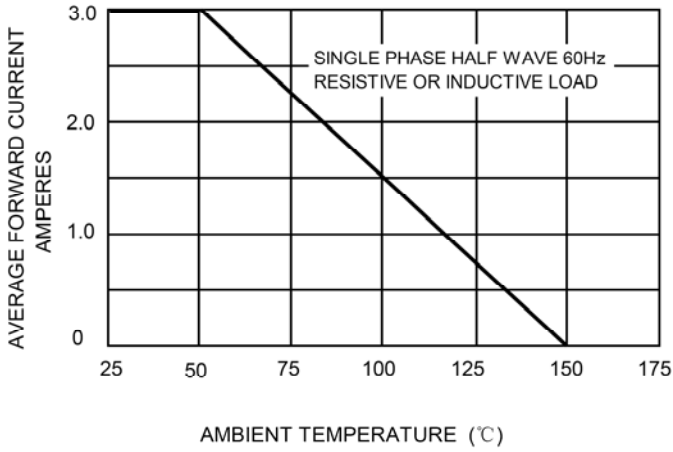


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

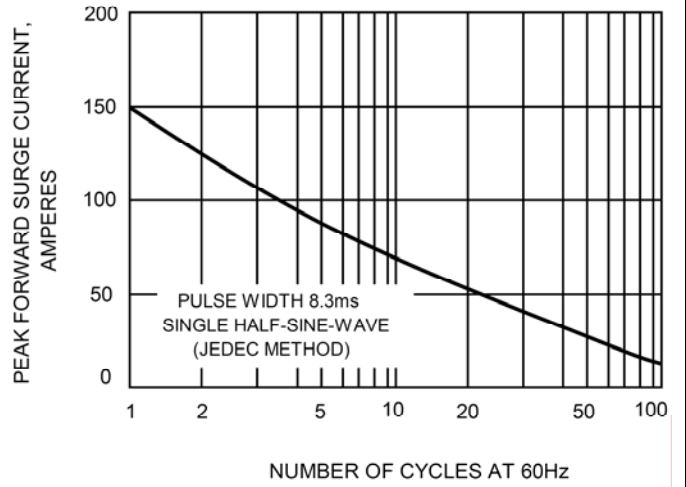


FIG.3 – TYPICAL JUNCTION CAPACITANCE

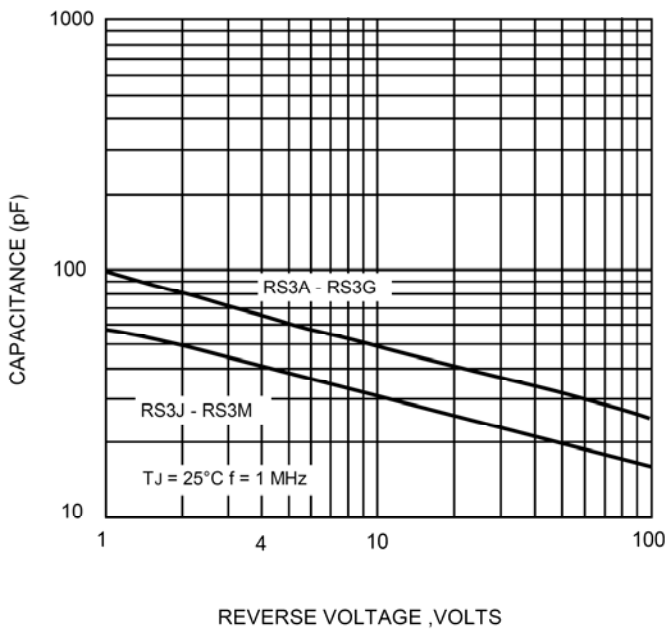
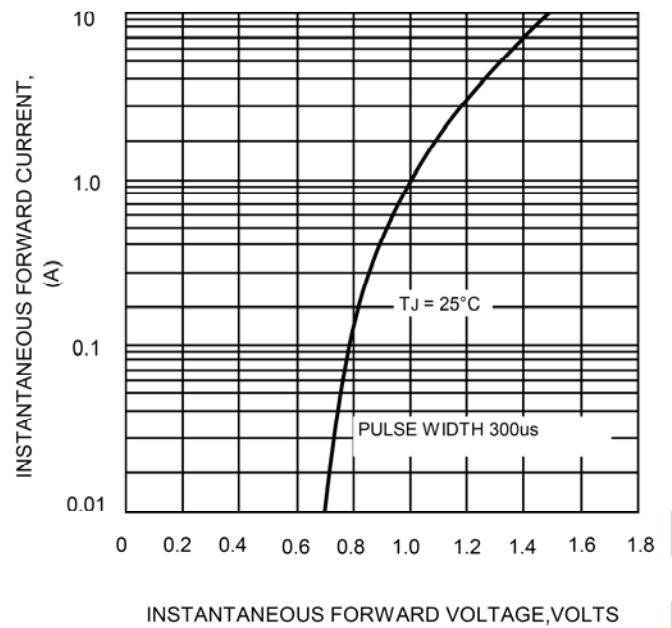


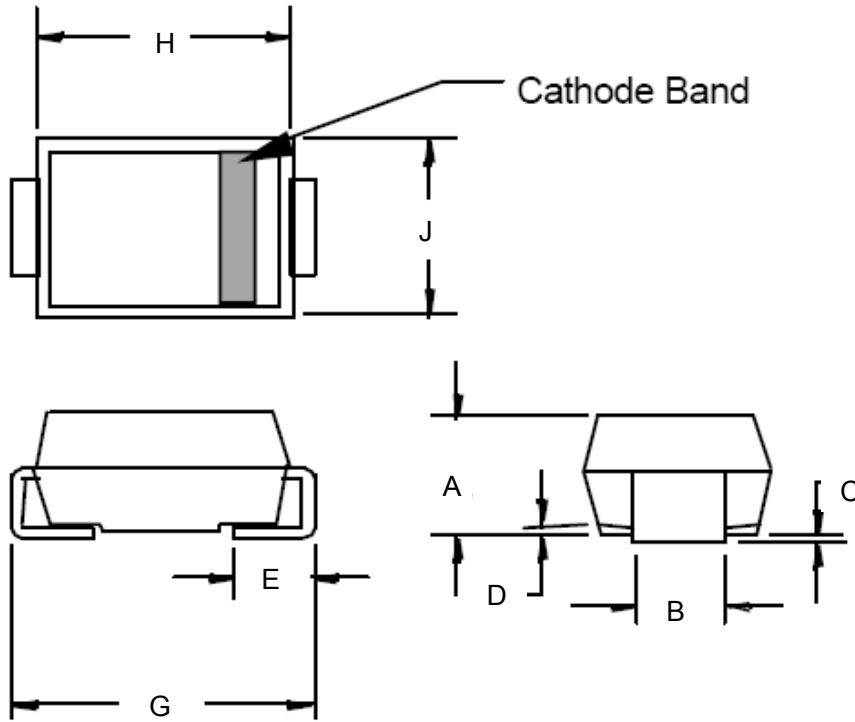
FIG.4-TYPICAL FORWARD CHARACTERISTICS



Package Dimension

DO-214AB (SMC)

Unit: mm



DIM	MIN.	MAX.
A	1.90	2.41
B	2.92	3.07
C	0.10	0.20
D	-	0.51
E	0.76	1.52
G	7.75	8.13
H	6.60	7.11
J	5.59	6.22