

Surface Mount Super Fast Glass Passivated Rectifier

multicomp PRO



Features

- Super fast switching time for high efficiency
- Low forward voltage drop and high current capability
- Low reverse leakage current
- Plastic material has UL flammability classification 94V-0

Mechanical Data

Case	: Molded Plastic
Polarity	: Colour band denotes cathode
Weight	: 0.003 ounces, 0.093 grams
Mounting Position	: Any
Reverse Voltage	: 50 to 600 Volts
Forward Current	: 2 Amperes

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%

Characteristics	Symbol	ES2A+	ES2B+	ES2D+	ES2G+	ES2J+	Unit
Max. Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	V
Max. RMS Voltage	V_{RMS}	35	70	140	280	420	V
Max. DC Blocking Voltage	V_{DC}	50	100	200	400	600	V
Max. Average Forward Rectified Current @ $T_A = 50^\circ C$	$I_{(AV)}$	2					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I_{FSM}	50					A
Peak Forward Voltage at 2A DC	V_F	0.95			1.3	1.7	V
Maximum DC Reverse Current @ $T_J = 25^\circ C$ at Rated DC Blocking Voltage @ $T_J = 100^\circ C$	I_R	5 100					μA
Maximum Reverse Recovery Time (Note 1)	T_{RR}	35					nS
Typical Junction Capacitance (Note 2)	C_J	40			30		pF
Typical Thermal Resistance (Note 3)	$R_{\theta JL}$	25					$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150					$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150					$^\circ C$

- Notes :**
1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{RR} = 0.25A$
 2. Measured at 1MHz and applied reverse voltage of 4V DC
 3. Thermal resistance junction to lead
 4. The typical data above is for reference only

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicomp PRO

Surface Mount Super Fast Glass Passivated Rectifier



Rating and Characteristic Curves

FIG. 1 – FORWARD CURRENT DERATING CURVE

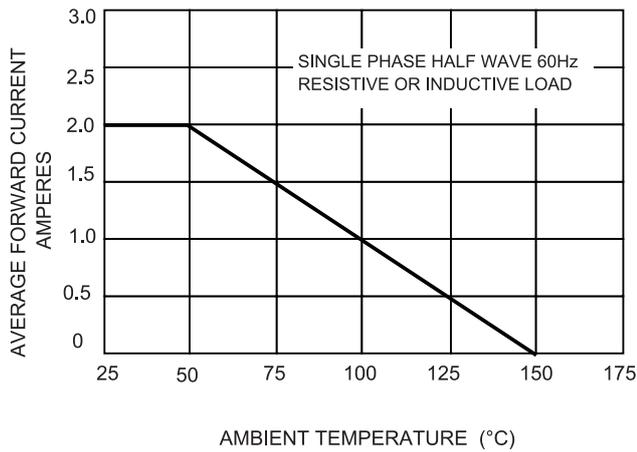


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

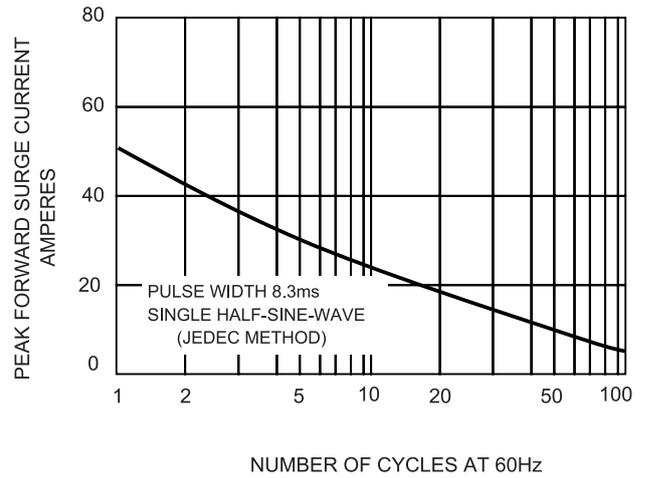


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

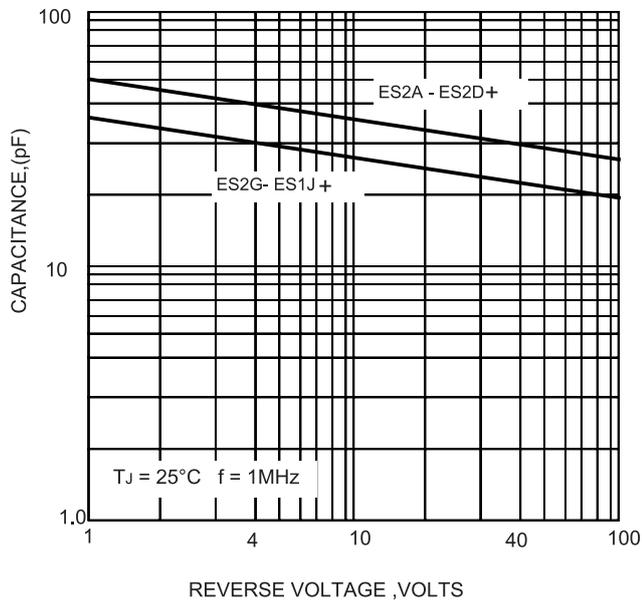
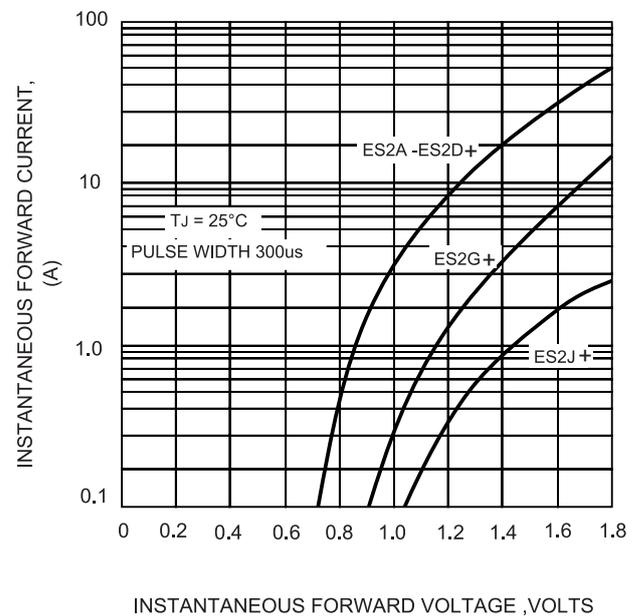


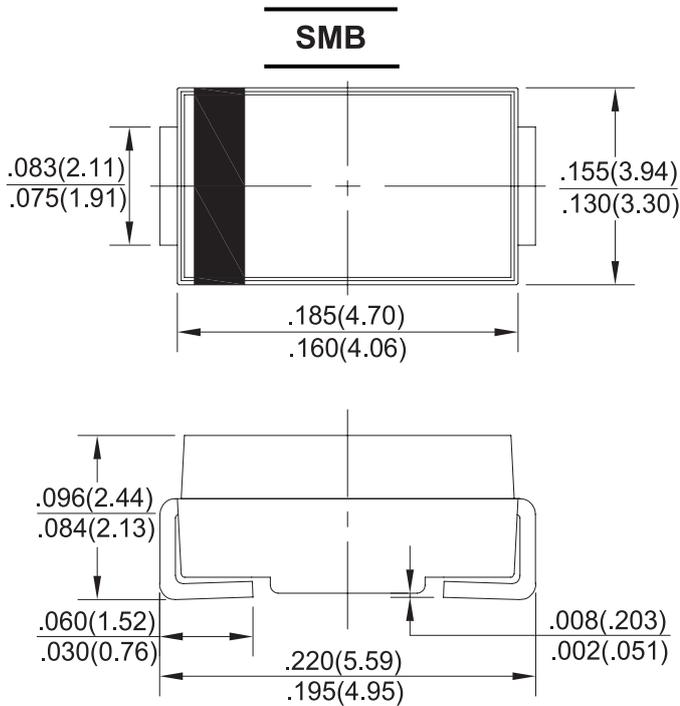
FIG. 4-TYPICAL FORWARD CHARACTERISTICS



Surface Mount Super Fast Glass Passivated Rectifier



Dimensions:



Dimensions : Inches (Millimetres)

Part Number Table

Description	Part Number
Surface Mount Super Fast Glass Passivated Rectifiers	ES2A+
	ES2B+
	ES2D+
	ES2G+
	ES2J+

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
Element14.com/multicomp-pro

