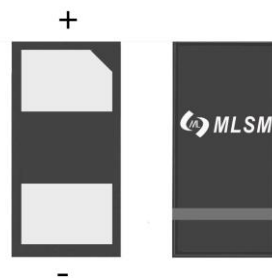


Features

- Low VF
- High reliability
- We declare that the material of product compliance with RoHS requirements and Halogen Free
- S-prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable



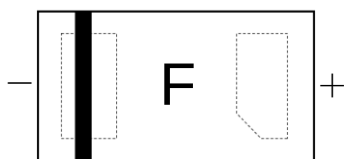
DFN0603-2L view



Schematic diagram

Application

- Low current rectification



Marking and pin assignment



Halogen-Free

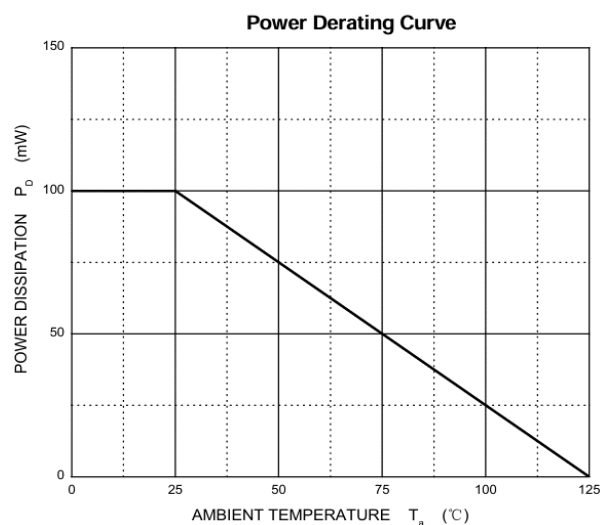
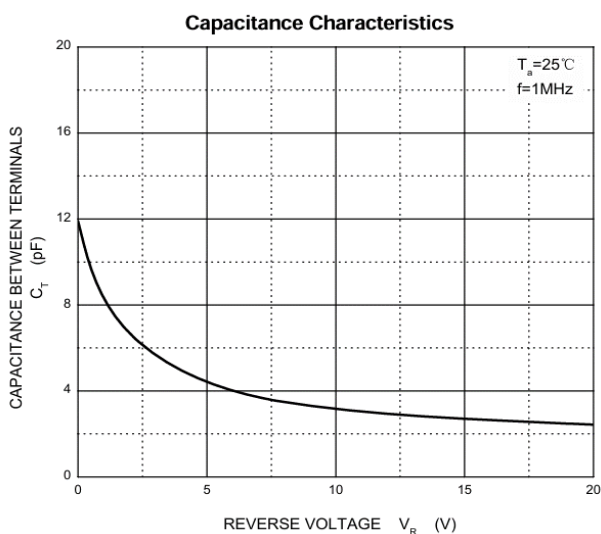
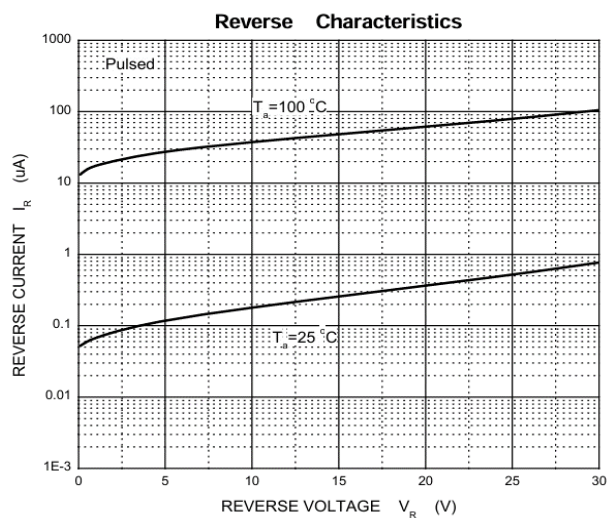
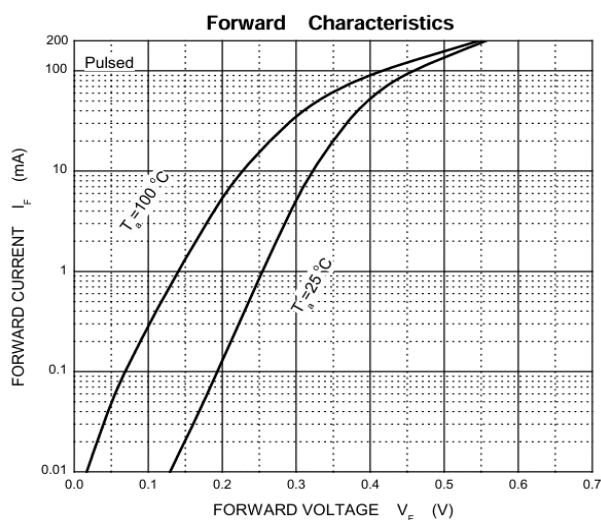
Maximum Ratings($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_R	Reverse voltage (DC)	30	V
I_O	Average rectified forward current	100	mA
I_{FSM}	Forward current surge peak (60Hz · 1cyc)	500	mA
P_D	Maximum Power Dissipation	100	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	1000	$^{\circ}\text{C}/\text{W}$
T_J	Junction temperature	-40~+125	$^{\circ}\text{C}$
T_{stg}	Storage temperature	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_J=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Condition	Min	Typ	Max	Unit
$V_{(BR)}$	Reverse voltage	$I_R=10\mu\text{A}$	30	--	--	V
I_R	Reverse current	$V_R=10\text{V}$	--	--	10	μA
V_F	Forward voltage	$I_F=10\text{mA}$	--	--	0.38	V
		$I_F=100\text{mA}$	--	--	0.6	V

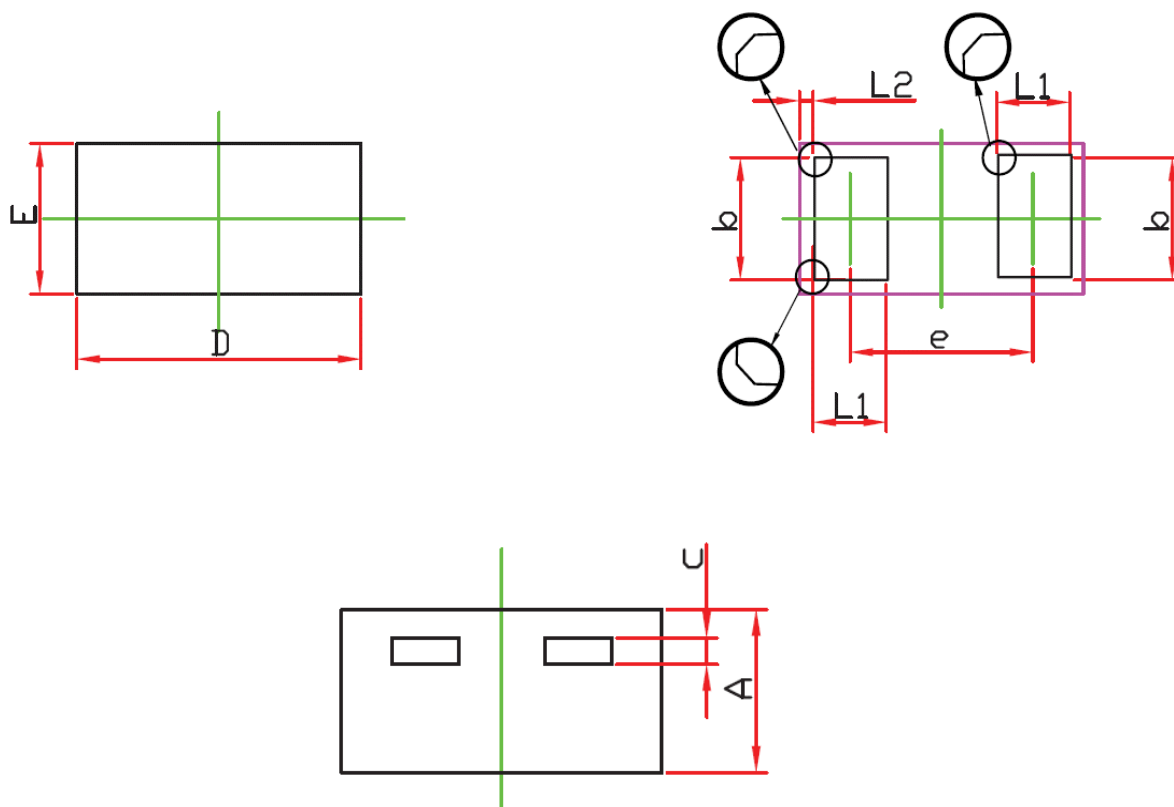
Typical Operating Characteristics



Ordering Information (Example)

Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
DS521-30EAA02	DFN0603-2L	F	10,000	150,000	600,000	7"reel

DFN0603-2L Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.270	0.340	0.010	0.013
D	0.550	0.670	0.021	0.026
E	0.250	0.370	0.009	0.015
b	0.200	0.350	0.008	0.014
c	0.050 REF.		0.002 REF.	
e	0.350	0.435	0.014	0.017
L1	0.125	0.230	0.005	0.009
L2	0.030 REF.		0.001 REF.	