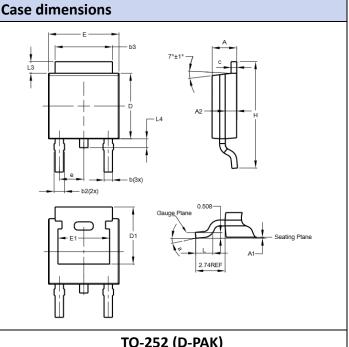


SMD General Purpose Silicon Rectifiers

Primary characteristics							
Parameter	Value	Unit					
Maximum Repetitive Peak Reverse Voltage	1000	V					
Maximum Average Forward Rectified Current	8.0	A					

Features

- TO-252 (D-PAK) case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- High current capability
- Low forward voltage drop
- Glass passivated chip junction
- Low power loss, high efficiency
- Solderable per MIL-STD-750, Method 2026
- Approx. weight: 0.32g / 0.011oz

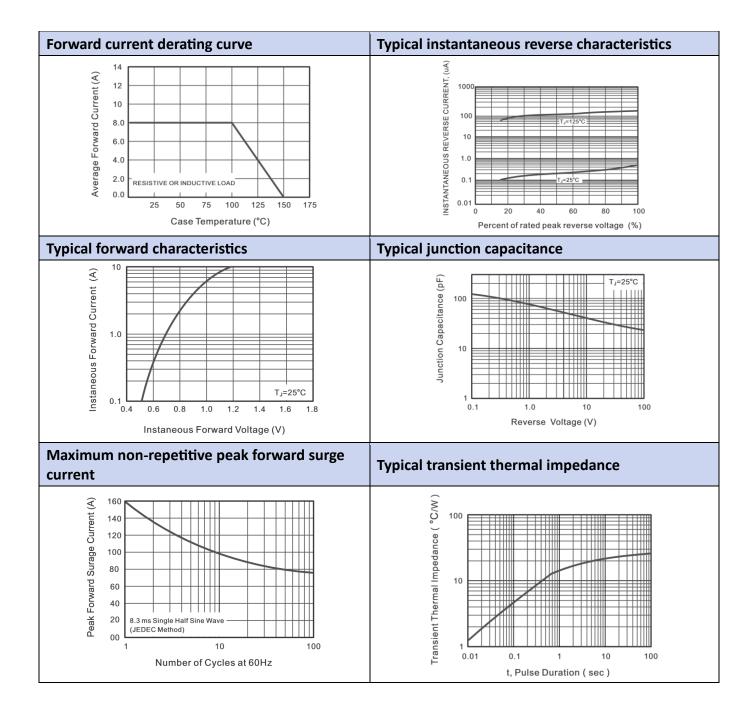


TO-252 (D-PAK)											
	Α	A1	A2	b	b2	b3	с	D	D1	е	E
ТҮР	2.29	0.08	1.07	0.783	0.95	5.33	0.531	6.1	-	2.286 BSC	6.58
MIN	2.19	0	0.97	0.64	0.76	5.21	0.45	6.0	5.21		6.45
MAX	2.39	0.13	1.17	0.88	1.14	5.5	0.58	6.2	-		6.7
	E1	Н	L	L3	L4	а	All measurements in mm				
ТҮР	9.91	9.91	1.59	1.08	0.83	-					m
MIN	9.40	9.4	1.4	0.88	0.64	0°					
MAX	10.41	10.41	1.78	1.27	1.02	10°					

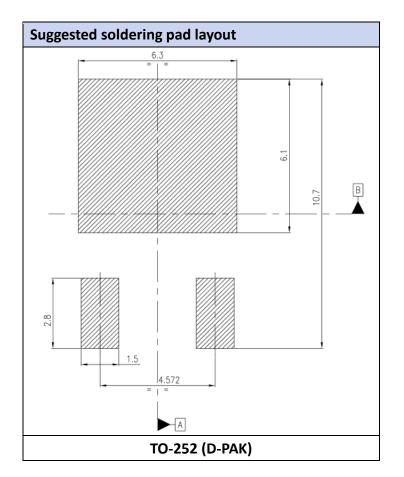
Absolute maximum ratings and general electrical characteristics (T _a = 25°C)						
Parameter		Symbol	Value	Unit		
Maximum repetitive peak rever	se voltage	Vrrm	1000			
Maximum RMS voltage		V _{RMS}	700	V		
Maximum DC blocking voltage		V _{DC}	1000	1		
Maximum average forward rect current	ified	l _{F(AV)}	8.0			
Peak forward surge current 8.3mS single half sine wave superimposed on rated load (JEDEC method)		Ifsm	170	A		
Maximum instantaneous forward voltage @8.0A DC		VF	1.1	v		
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C		5.0	μΑ		
	T _a =125°C	I _R	500			
Typical junction capacitance V _R =4.0V, f=1.0MHz		Cj	50	pF		



Absolute maximum ratings and general electrical characteristics ($T_a = 25^{\circ}C$)						
Parameter	Symbol	Value	Unit			
Typical Thermal Resistance (PCB with 100x100x1mm copper pad areas)	R _{eJA}	25	°C/W			
Operating junction and storage temperature range	Тј, Т _{STG}	-55 ~ 150	°C			







Ordering information							
Part Number	Package	Shipping Quantity	Dimensions				
GS810DS	TO-252 (D-PAK)	2500 pcs / 13" reel					

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