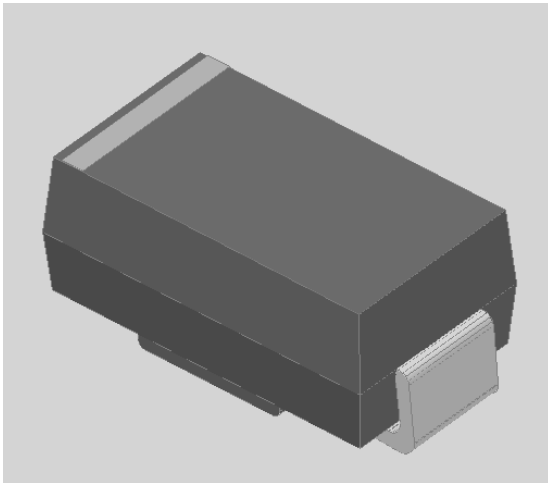
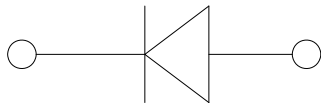




Typical Applications

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, automotive inverter applications, soldered on printed boards, soldered on J-STD-002 and JESD22-B102

- **Polarity:** Cathode line denotes the cathode end



■Maximum Ratings (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS28AQ	SS210AQ
Device marking code			SS28A	SS210A
Repetitive peak reverse voltage	V _{RRM}	V	80	100
Maximum RMS voltage	V _{RMS}	V	56	70
Maximum DC blocking voltage	V _{DC}	V	80	100
Maximum average forward rectified current at T _L (Fig.1)	I _O	A	2.0	
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, T _J =25	I _{FSM}	A	75	
Voltage rate of change (rated V _R)	dV/dt	V/μs	10000	
Storage temperature	T _{stg}		-55 ~+175	
Junction temperature	T _J		-55 ~+175	

■Electrical Characteristics(T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS		TYP	MAX	UNIT
Instantaneous forward voltage	V _F	I _F =2A	T _J =25	0.77	0.8	V
			T _J =125	0.62	0.66	
Reverse current	I _R	Rated V _R	T _J =25	-	1	μA
			T _J =125	20	150	
Typical junction capacitance	C _J	V _R =4V,f=1MHz		60	-	pF
Reverse recovery time	T _{RR}	IF=1A, di/dt=-50A/μs, VRM=30V		25	-	ns



SS28AQ THRU SS210AQ

■ Thermal Characteristics ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS28AQ	SS210AQ
Thermal Resistance	$R_{\theta J-A}$	/W	75 ¹⁾	
	$R_{\theta J-L}$		17 ¹⁾	

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

■ Characteristics (Typical)

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS28AQ- SS210AQ	F2	Approximate 0.067	7500	120000	13" reel



SS28AQ THRU SS210AQ

■ Outline Dimensions

DO-214AC(SMA)		
Dim	Min	Max
A	1.25	1.58
B	2.40	2.83
C	4.00	4.75
D	1.90	2.30
E	4.93	5.28
F	0.76	1.41
G	0.05	0.20
H	0.15	0.31
I	1.7	2.1

ΩSuggested Pad Layout

DO-214AC(SMA)	
Dim	Millimeters



SS28AQ THRU SS210AQ

Disclaimer

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