ES5AC THRU ES5JC

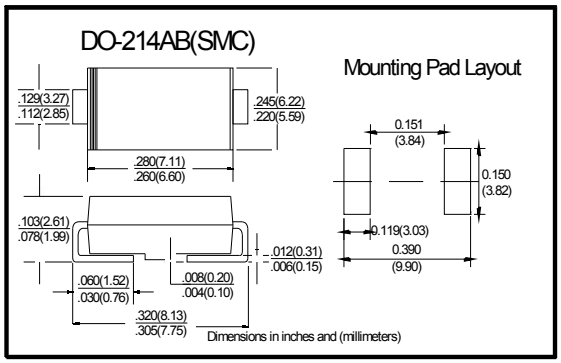
Super Fast Rectifier

Features

- I_o 5.0A
- VRRM 50V-600V
- High surge current capability

Applications

- Rectifier



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Conditions	ES5							
				A	B	C	D	F	G	H	J
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200	300	400	500	600
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, Ta=50℃	5.0							
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave,1 cycle, Ta=25℃	150							
Junction Temperature	T_J	℃		-55~+150							
Storage Temperature	T_{STG}	℃		-55 ~ +150							

Electrical Characteristics (T_a=25℃ Unless otherwise specified)

Item	Symbol	Unit	Test Condition		ES5							
					A	B	C	D	F	G	H	J
Peak Forward Voltage	V_{FM}	V	I_{FM}=5.0A		0.95				1.3		1.7	
Peak Reverse Current	I_{RRM1}	μA	$V_{RM}=V_{RRM}$	Ta=25℃	10							
	I_{RRM2}			Ta=125℃	500							
Reverse Recovery time	t_{rr}	ns	I_F=0.5A I_R=1A I_{RR}=0.25A		35							
Thermal Resistance(Typical)	$R_{\theta J-A}$	℃/W	Between junction and ambient		50							
	$R_{\theta J-L}$		Between junction and lead		15							

Notes:

1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

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FIG.1

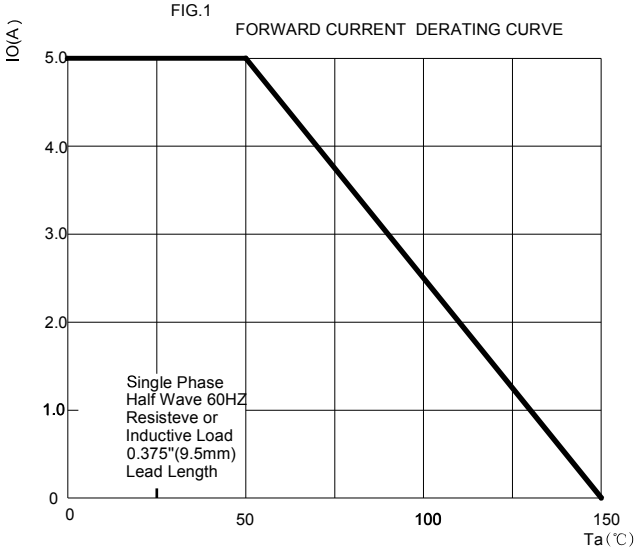


FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

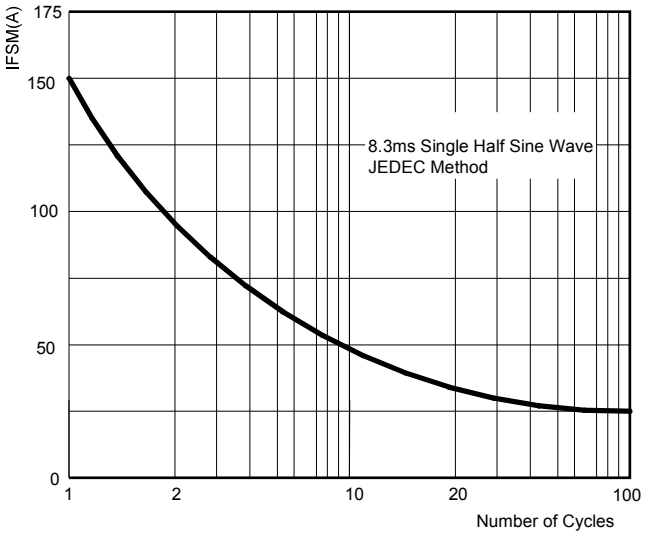


FIG.3 TYPICAL FORWARD CHARACTERISTICS

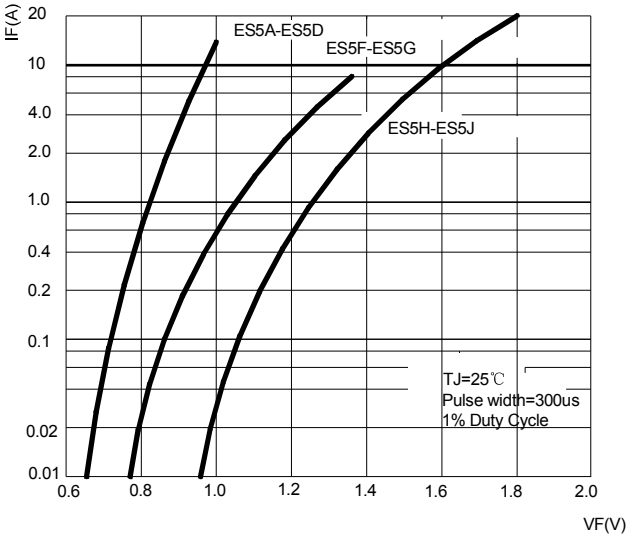


FIG.4:TYPICAL REVERSE CHARACTERISTICS

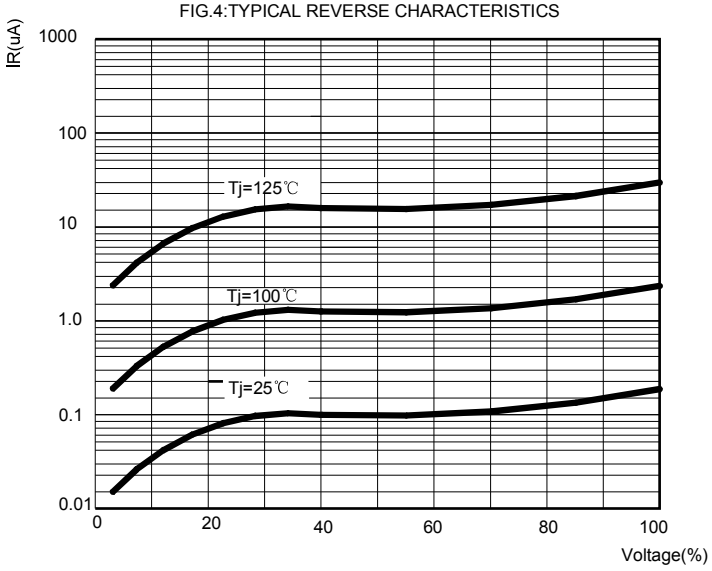
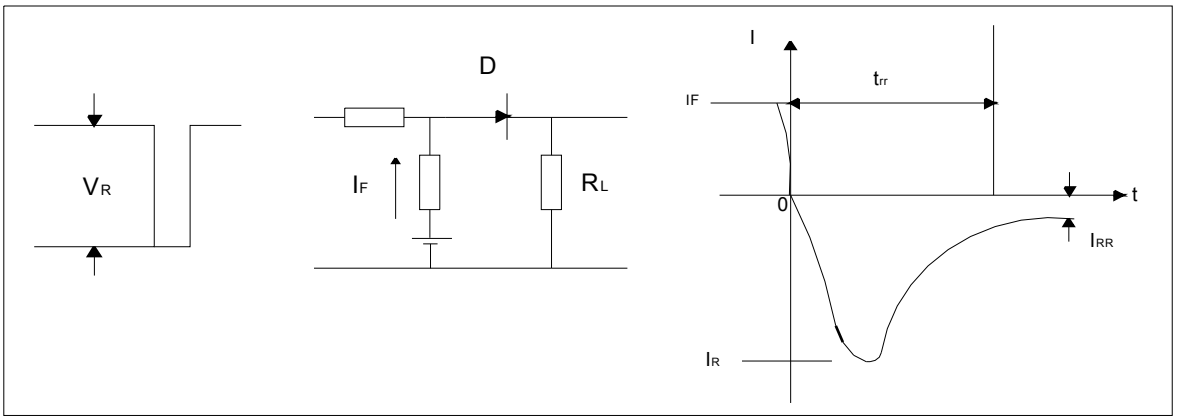


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



单击下面可查看定价，库存，交付和生命周期等信息

>>SHIKUES(时科)