

Features:

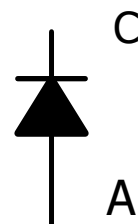
- Emitter injection control technology
- Soft, fast switching
- Low reverse recovery charge
- Small and positive temperature coefficient

Recommended for:

Low / medium power modules

Applications:

Low / medium power drives



Mechanical parameters

Die size (include scribe lane)	L x W	2.76×4.56	mm ²
Anode pad size	L x W	1.60×3.40	mm ²
Scribe lane		60	μm
Silicon thickness		110	μm
Wafer size		200	mm
Maximum possible chips per wafer		2203	
Passivation frontside		Polyimide	
Pad Metallization	AlSiCu	4	μm
Backside Metallization	Ti / Ni / Ag	1.3	μm

Maximum Ratings

Parameters	Symbol	Value	Unit
Repetitive peak reverse voltage	V_{RRM}	1200	V
Continuous forward current, limited by $T_{vj\ max}^2$	I_F	25 ¹	A
Maximum repetitive forward current, t_p limited by $T_{vj\ max}$	I_{FRM}	50	A
Operating junction temperature	$T_{vj\ op}$	-40~175	°C
Storage temperature	T_{stg}	-40~150	°C

Static Characteristic ($T_j=25^{\circ}C$, unless otherwise noted)

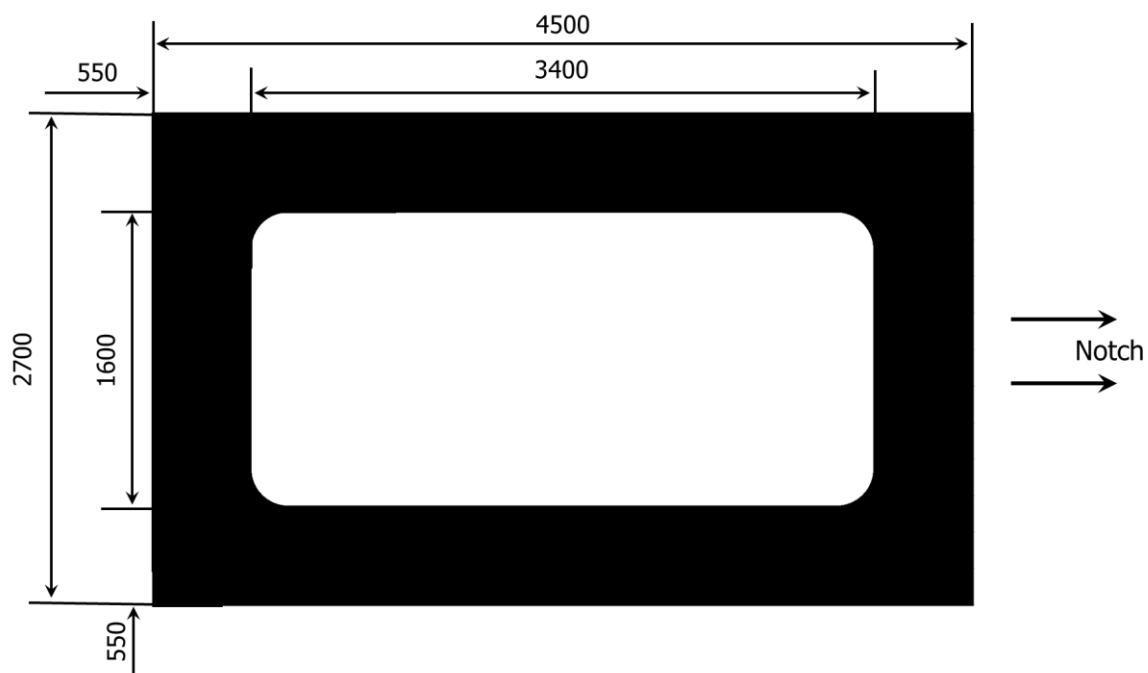
Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Cathode-Anode breakdown voltage	V_{BR}	$I_R=1mA$	1200	-	-	V
Diode forward voltage	V_F	$I_F=25A$	1.52	1.70	1.98	V
Reverse leakage	I_R	$V_R=1200V$	-	-	5	μA

Electrical Characteristic²

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Diode forward voltage	V_F	$I_F=25A$	-	1.70	-	V
			-	1.85	-	V

¹ Depending on thermal properties of assembly.

² Not subject to production test - verified by design/characterization.

Chip Drawing (unit: μm)


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